Visit report:-INDUSTRIAL VISIT OF CIVIL DEPARTMENT STUDENTS ON 25/5/23 AT BHOPAL METRO L&T CONSTRUCTION PROJECT WORK

DATE:-25-05-2023

Visit coordinator:- prof. Akshay jain

No of students :-20

Visit purpose:- student learn about metro rail track design and construction work.

Department of Civil Engineering Organized A Industrial Visit Of Civil Department Students On 25/5/23 At Bhopal Metro L&T Construction Project Work. This visit was conducted by L&T Edutech for vi semester students. The visit is coordinated by Prof. Akshay Jain.During this visit, students learn about the construction of rail track on the deck of the metro path at the Subhash Nagar depot location of the Bhopal metro project.





Visit report:- INDUSTRIAL VISIT OF CIVIL DEPARTMENT STUDENTS ON 6/4/23 AT IT PARK BUILDING WORK, BHOPAL

DATE:-06-04-2023

Visit coordinator:- prof. kaushal saini

No of students :-20

Visit purpose:- student learn about building foundation work and column casting work.

Department Of Civil Engineering Organized A Industrial Visit Of Civil Department Students On 6/4/23 At It Park Building Work, Bhopal. During this visit, students learn about foundation and column casting work.





Visit report:- INDUSTRIAL VISIT OF CIVIL DEPARTMENT STUDENT ON 04/02/23 AT NRI GROUP BUILDING SITE NO12 WORK, BHOPAL

DATE:-04-02-2023

Visit coordinator:- prof. Akshay jain

No of students :-30

Visit purpose:- Students learn about the actual work and actual plan execution during the visit.

Department Of Civil Engineering Organized A Industrial Visit Of Civil Department Student On 04/02/2023 At Nri Group Building Site No12 Work, Bhopal. Students learn about the actual work and actual plan execution during the visit.





Visit report :- Industrial Visit of Ultra Tech RMC Plant by niist civil engineering dept students

DATE:-12-11-2022

Visit coordinator:- prof. kriparam Banskar

No of students :-27

Visit purpose:- student learn about the ready mix concrete and ready mix concrete plant working process that how rmc plant operated.



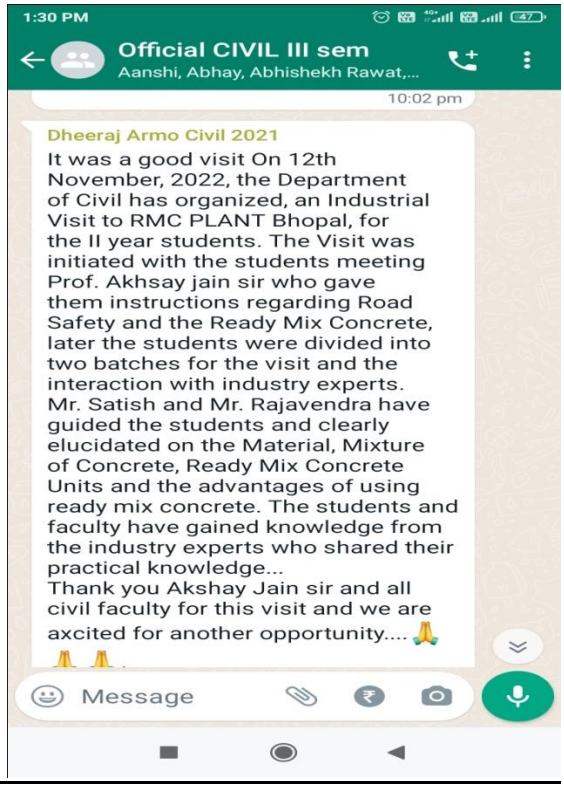


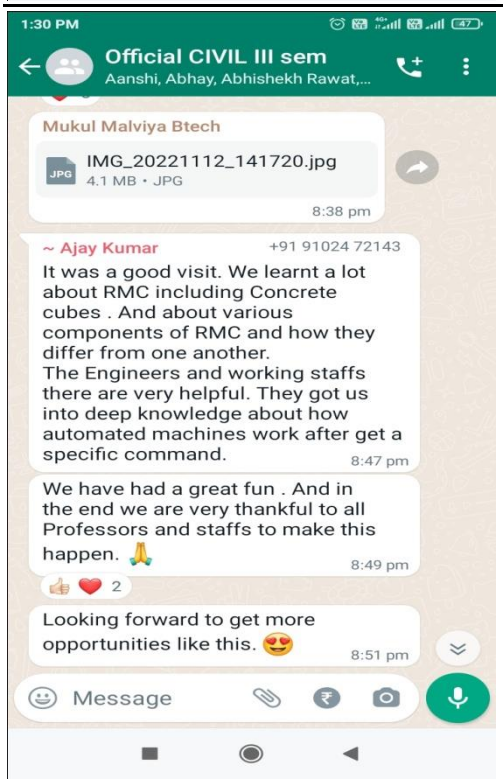


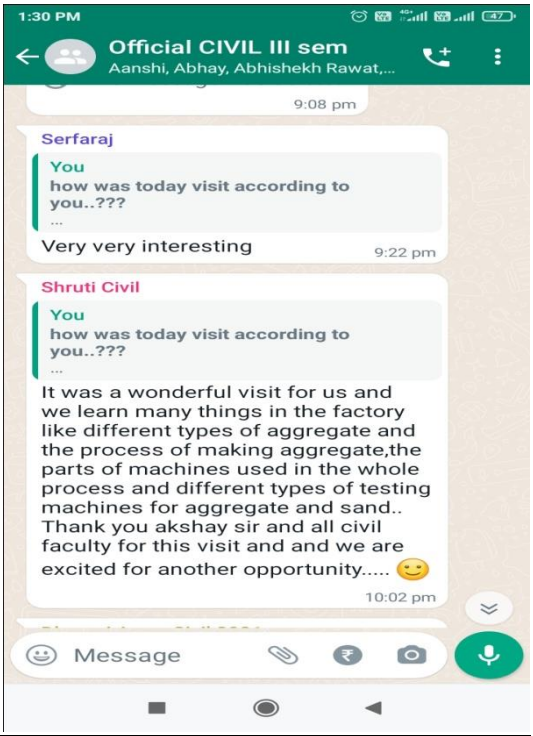


Students feedback:-









NRI INSTITUTE OF INFORMATION SCIENCE AND TECHNOLOGY BHOPAL (M.P.)

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled **"Study of air quality parameters of NIIST building"** is submitted by **Rakesh Katre (0115CE191024) Md Abul Kalam Ansari (0115CE203D32) Raman Kumar (0115CE191025) Md Saif Ali (0115CE203D33) Rohit Parmar (0115CE191027) Md Sajid (0115CE203D34) Mahima Soneshwer (0115CE203D30) Md Tabsheen (0115CE203D35) Mani Prakashi (0115CE203D31) Md Tauhid Alam (0115CE203D36)** for partial fulfilment of the requirement for the award of 'Bachelors of Technology in 'Civil engineering' discipline to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the academic year 2019-2023 is a record of Bonafede piece of work, undertaken by him in the supervision of the undersigned.

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DECLARATION

Department of Civil Engineering

We are student of 'Bachelor of Technology in **'Civil engineering'**, **NRI Institute of Information Science & Technology, Bhopal (M.P.),** hereby declare that the work, which is being presented in this dissertation, **entitled " Study of air quality parameters of NIIST building"** partial fulfilment of the requirements for the award of degree of Bachelors of Technology in Civil Engineering is an authentic record of my own work carried under the guidance of **Prof. Akshay Jain** We have not submitted the matter embodied in this report for award of any other degree.

We also declare that "A check for Plagiarism has been carried out on the dissertation and is found within the acceptable limit and report of which is enclosed herewith".

Submitted By

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Rohit Parmar (0115CE191027)	Md Sajid (0115CE203D34)
Mahima Soneshwer (0115CE203D30)	Md Tabsheen (0115CE203D35)
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NRI INSTITUTE OF INFORMATION SCIENCE AND TECHNOLOGY BHOPAL (M.P.)

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled **SISAL FIBER AND JUTE GEOTEXTILES APPLICATION FOR SOIL STABILIZATION "**

Is Submitted by

Md shahid hussain(0115CE191017)
Mukul vishwakarma (0115CE191021)
Jitu bopche (0115CE203D24)
Ketan (0115CE203D26)
Mohit meshram (0115CE191020)
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Kapil (0115CE203D25)
Kumar shubham (0115CE203D27)
Lalit kumargarewal(0115CE203D29)

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Supervisor
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NRI INSTITUTE OF INFORMATION SCIENCE AND TECHNOLOGY BHOPAL (M.P.)

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Supervisor	**HOD**	**Principal**
Prof. Tanushree sharma	Prof. Akshay jain	Seal & Sign
Associate Prof.	Associate Prof. &	NIIST, Bhopal (M.P.)
Department of CE	Head Department of C	

NRI INSTITUTE OF INFORMATION SCIENCE AND TECHNOLOGY BHOPAL (M.P.)

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled **"Lighting and signage with marking criterion for NIIST approach road" is submitted by** Roshani Rahangdale (0115CS191086) Tabrez Khan (0115CS191113) Ritik Jaiswal (0115CE203D58) Durga Mehra (0115EC191009) Rohit Kumar (0115CE203D59) Ravi Sharma (0115CE203D55) Rohit Palewar (0115CE203D60) Ravikant Rahangdale (0115CE203D56) Rupesh Gautam (0115CE203D61) **for partial fulfilment of the requirement for the award** *of* ***'Bachelors of Technology*** *in 'Civil engineering' discipline to* ***Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)*** *during the academic year* ***2019-2023*** *is a record of Bonafede piece of work, undertaken by him in the supervision of the undersigned.*

Supervisor
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NRI Institute of Information Science and Technology, Bhopal (M.P)

DECLARATION

Department of Civil Engineering

We are student of 'Bachelor of Technology in **'Civil engineering'**, **NRI Institute of Information Science & Technology, Bhopal (M.P.),** hereby declare that the work, which is being presented in this dissertation, **entitled " Lighting and signage with marking criterion for NIIST approach road"** partial fulfilment of the requirements for the award of degree of Bachelors of Technology in Civil Engineering is an authentic record of my own work carried under the guidance of **Prof. Akshay Jain** We have not submitted the matter embodied in this report for award of any other degree.

We also declare that "A check for Plagiarism has been carried out on the dissertation and is found within the acceptable limit and report of which is enclosed herewith".

Submitted By

Roshani Rahangdale (0115CS191086)

Tabrez Khan (0115CS191113)	Ritik Jaiswal (0115CE203D58)
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BHOPAL (M.P.)

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled **"IRC ROAD PAVEMENT FOR NIIST COLLEGE** APPROACH ROAD" is submitted by **SUDHA KUMARI (0115CE191035) VIJAYSHANKAR TITARMARE (0115CE191038) VIRENDRA (0115CE191039) PINTU KUMAR GUPTA (0115CE203D47) PINTU YADUWANSHI (0115CE203D48) PRABHAKAR SINGH (0115CE203D49) PRAGIT BISEN (0115CE203D50) PRASHANT (0115CE203D51) PRINCE KUMAR (0115CE203D53) RAJABABU KUMAR (0115CE203D54) for partial fulfilment of the requirement for the award** *of* ***'Bachelors of Technology*** *in 'Civil engineering' discipline to* ***Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)*** *during the academic year* ***2019-2023*** *is a record of Bonafede piece of work, undertaken by him in the supervision of the undersigned.*

GUIDANCE
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DEPARTMENT OF CE

HOD
PROF. ANSHAY JAIN
ASSOCIATE PROF. &
HEAD DEPARTMENT OF CE

PRINCIPAL
SEAL SIGN
DR. PURAN GAUR
NIIST BHOPAL (MP)

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NRI Institute of Information Science and Technology, Bhopal (M.P)

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Department of Civil Engineering

We are student of 'Bachelor of Technology in **'Civil engineering'**, **NRI Institute of Information Science & Technology, Bhopal (M.P.),** hereby declare that the work, which is being presented in this dissertation, **entitled "IRC ROAD PAVEMENT FOR NIIST COLLEGE APPROACH ROAD"** partial fulfilment of the requirements for the award of degree of Bachelors of Technology in Civil Engineering is an authentic record of my own work carried under the guidance of **Prof. Mahesh wichhely** We have not submitted the matter embodied in this report for award of any other degree.

We also declare that "A check for Plagiarism has been carried out on the dissertation and is found within the acceptable limit and report of which is enclosed herewith". Submitted By **Sudha Kumari (0115ce191035) Vijayshankar Titarmare (0115ce191038) Virendra (0115ce191039) Pintu Kumar Gupta (0115ce203d47) Pintu Yaduwanshi (0115ce203d48) Prabhakar Singh (0115ce203d49) Pragit Bisen (0115ce203d50) Prashant (0115ce203d51) Prince Kumar (0115ce203d53) Rajababu Kumar (0115ce203d54)**

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DEPARTMENT OF CE	HEAD DEPARTMENT OF CE	NIIST, BHOPAL (MP)

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BHOPAL (M.P.)

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled"**Soil Stabilization using Rubber Shreddings and Tyre Chips" is submitted by** Ajay Kumar Taras(0511CE191001) Karuna Shinde(0511CE191002) Lokendra Lodhi(0511CE191003) Rekha aghel (0115CE203D57) Suchit Gedam (0115CE203D69) Suresh Ku. Prajapati (0115CE203D70) Tabish Anwar(0115CE203D71) Tejendra Sallam (0115CE203D72) Varsha Patle (0115CE203D73) Vipendra Yadav (115CE203D75

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Supervisor
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DECLARATION

Department of Civil Engineering

We are student of 'Bachelor of Technology in **'Civil engineering'**, **NRI Institute of Information Science & Technology, Bhopal (M.P.),** hereby declare that the work, which is being presented in this dissertation, **entitled " Soil Stabilization using Rubber Shreddings and Tyre Chips**" partial fulfilment of the requirements for the award of degree of Bachelors of Technology in Civil Engineering is an authentic record of my own work carried under the guidance of **Prof. Ram Thakur.** We have not submitted the matter embodied in this report for award of any other degree.

We also declare that "A check for Plagiarism has been carried out on the dissertation and is found within the acceptable limit and report of which is enclosed herewith".

Submitted By

Ajay Kumar Taras(0511CE191001)	Karuna Shinde(0511CE191002)
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Suchit Gedam(0115CE203D69)	Suresh Ku.Prajapati(0115CE203D70)
Tabish Anwar(0115CE203D71)	Tejendra Sallam(0115CE203D72)
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NRI INSTITUTE OF INFORMATION SCIENCE AND TECHNOLOGY BHOPAL (M.P.)

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled **"STUDY OF PAVEMENT PARAMETERS AS PER IRC FOR NIIST COLLEGE APPROACH ROAD" is submitted by** **DENISH GONDUDE (0115CE191009) HIMANSHU MISHRA (0115CE191011) JAY KUMAR KASHYAP (0115CE191014) DEEPAK BAKORIYA (0115CE203D16) DEVANAND (0115CE203D17 DEVENDRA PATLE(0115CE203D18) DIGVIJAY SINGH (0115CE203D19)FARID MALIK (0115CE203D20) GIRISH BISEN (0115CE203D21) ISHWAR DAYAL (0115CE203D22)** **for partial fulfilment of the requirement for the award** *of* ***'Bachelors of Technology*** *in 'Civil engineering' discipline to* ***Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)*** *during the academic year* ***2019-2023*** *is a record of Bonafede piece of work, undertaken by him in the supervision of the undersigned.*

Supervisor
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NRI Institute of Information Science and Technology, Bhopal (M.P)

DECLARATION

Department of Civil Engineering

We are student of 'Bachelor of Technology in **'Civil engineering'**, **NRI Institute of Information Science & Technology, Bhopal (M.P.),** hereby declare that the work, which is being presented in this dissertation, **entitled "STUDY OF PAVEMENT PARAMETERS AS PER IRC FOR NIIST COLLEGE APPROACH ROAD"** partial fulfilment of the requirements for the award of degree of Bachelors of Technology in Civil Engineering is an authentic record of my own work carried under the guidance of **Prof. AKSHAY JAIN** We have not submitted the matter embodied in this report for award of any other degree.

We also declare that "A check for Plagiarism has been carried out on the dissertation and is found within the acceptable limit and report of which is enclosed herewith".

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GIRISH BISEN (0115CE203D21)
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NRI INSTITUTE OF INFORMATION SCIENCE AND TECHNOLOGY BHOPAL (M.P.)

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled "STUDY OF PROPERTIES OF CONCRETE MODIFIED WITH SUGARCANE BAGASSE ASH" is submitted by Abhay Kumar 0115CE191001Abu Bashar Ansari 0115CE203D03 Adil Khan 0115CE191003Ajay Bakoriya 0115CE203D05 Aman Singh 0115CE191004 Ajay Kumar Yadav 0115CE203D06 Aamir Nawaz – 0115CE203D01 Akash Katre 0115CE203D07 Abu Bakar Siddiqui 0115CE203D02 Anchal Dahate 0115CE203D08 for partial fulfilment of the requirement for the award of 'Bachelors of Technology in 'Civil engineering' discipline to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the academic year 2019-2023 is a record of Bonafide piece of work, undertaken by him in the supervision of the undersigned.

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DECLARATION

Department of Civil Engineering

We are student of 'Bachelor of Technology in 'Civil engineering', NRI Institute of Information Science & Technology, Bhopal (M.P.), hereby declare that the work, which is being presented in this dissertation, entitled "" partial fulfilment of the requirements for the award of degree of Bachelors of Technology in Civil Engineering is an authentic record of my own work carried under the guidance of Prof. Tanushree Sharma We have not submitted the matter embodied in this report for award of any other degree.

We also declare that "A check for Plagiarism has been carried out on the dissertation and is found within the acceptable limit and report of which is enclosed herewith".

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Abhay Kumar – 0115CE191001
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This is to certify that the work embodies in this dissertation entitled **"ALTERATION OF CONSTRUCTION JOINTS WITH FEASIBLE SOLUTION OF NIIST BUILDING" is submitted by**

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Deepak vishwakarma (0115CE191008)
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Ashish bisone(0115CE203D10)
Ashwini kumar(0115CE203D11)
Azmat ali(0115CE203D12)
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for partial fulfilment of the requirement for the award *of* ***'Bachelors of Technology*** *in 'Civil engineering' discipline to* ***Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)*** *during the academic year* ***2019-2023*** *is a record of Bonafede piece of work, undertaken by him in the supervision of the undersigned.*

Supervisor	**HOD**	**Principal**
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Associate Prof.	Associate Prof. &	NIIST, Bhopal (M.P)
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NRI Institute of Information Science and Technology, Bhopal (M.P)

DECLARATION

Department of Civil Engineering

We are student of 'Bachelor of Technology in **'Civil engineering'**, **NRI Institute of Information Science & Technology, Bhopal (M.P.),** hereby declare that the work, which is being presented in this dissertation, **entitled "Alteration of construction joints in feasible solution of NIIST Building** " partial fulfilment of the requirements for the award of degree of Bachelors of Technology in Civil Engineering is an authentic record of my own work carried under the guidance of **Prof. Akshay Jain** We have not submitted the matter embodied in this report for award of any other degree.

We also declare that "A check for Plagiarism has been carried out on the dissertation and is found within the acceptable limit and report of which is enclosed herewith".

Submitted By

Aniket Meena (0115CE191005)	Bibek Yadav (0115CE191006)
Deepak Vishwakarma (0115CE191008)	Anil Jaiswal (0115CE203D09)
Ashish bisone(0115CE203D10)	Ashwini Kumar(0115CE203D11)
Azmat Ali(0115CE203D12)	Balram Kumar(0115CE203D13)
Basant Kumar(0115CE203D14)	Chandan Kumar(0115CE203D15)

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BHOPAL (M.P.)

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled **"ENVIRONMENT IMPACT ASSESMENT OF SEWAGE TREATMENT PLANT & WATER QUALITY PARAMETER ANALYSIS"** is submitted by **Sandeep Kumar Sinha 0115CE203D64 Ganga 0115EC191010 Subham Kumar 0115CE203D60 Adnan Ali 0115ME191002 Rupesh Kumar 0115CE203D62 Salman Ansari 0115CE203D63 Shikha Sangotra 0115CE203D15 Shivam Katekar 0115CE203D66 Shivam Vishwakarma 0115CE203D67 Shivanshu Gupta 0115CE203D68** for partial fulfilment of the requirement for the award of 'Bachelors of Technology in 'Civil engineering' discipline to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the academic year 2019-202 is a record of Bonafede piece of work, undertaken by him in the supervision of the undersigned.

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DECLARATION

Department of Civil Engineering

We are student of 'Bachelor of Technology in 'Civil engineering', NRI Institute of Information Science & Technology, Bhopal (M.P.), hereby declare that the work, which is being presented in this dissertation, entitled "" partial fulfilment of the requirements for the award of degree of Bachelors of Technology in Civil Engineering is an authentic record of my own work carried under the guidance of Prof. Kriparam sir We have not submitted the matter embodied in this report for award of any other degree.

We also declare that "A check for Plagiarism has been carried out on the dissertation and is found within the acceptable limit and report of which is enclosed herewith".

Submitted By Sandeep Kumar Sinha 0115CE203D64 Ganga 0115EC191010 Subham Kumar 0115CE203D60 Adnan Ali 0115ME191002 Rupesh Kumar 0115CE203D62 Salman Ansari 0115CE203D63 Shikha Sangotra 0115CE203D15 Shivam Katekar 0115CE203D66 Shivam Vishwakarma 0115CE203D67 Shivanshu Gupta 0115CE203D68

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Prof. Akshay Jain sir Associate Prof. & Head Department of CE

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NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web based application for Employee management of NRI"** being submitted by **MD. SAHIL , (0115cs191050)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

Guided By

Prof. Vaibhav Patel
Assistant Professor
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NIIST, Bhopal

Approved By

Prof. Vaibhav Patel
Project In-charge
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NIIST, Bhopal

Director / Principal
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NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To Reviews of Scientific Papers a NLP based project"** being submitted by **NIDHI KUMARI , (0115CS191057)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

Guided By

Prof. Vaibhav Patel
Assistant Professor
Computer Science and Engineering
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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop a web based application for Health based Electronic card"** being submitted by **ANIKET KUMAR NAMDEV , (0115CS191110)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To Develop a RFID Passenger system for NGI Transport"** being submitted by **ASHUTOSH TIWARI , (0115CS191014)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop and update the module for college website"** being submitted by **SHAILJA SINGH , (0115CS191097)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a mobile application for data entry linked with college ERP"** being submitted by **SHAHRUKH KHAN , (0115CS191096)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web application for Visitor's Information System of NGI"** being submitted by **PRIYANSHU KU SINGH , (0115CS191074)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a object detection and counting in a class room (S-9) through IoT"** being submitted by **RUDRESH UNTWAL , (0115CS191087)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Cursor Movement on object motion"** being submitted by **DEEPAK KUMAR , (0115CS191018)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To Develop a RFID Passenger system for NGI Transport"** being submitted by **OM PRAKASH MISHRA , (0115CS191062)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To Develop a Web Application for Inventory Management system of NGI"** being submitted by **NIKITA SHARMA , (0511CS191005)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web application for Fee Management of NGI"** being submitted by **VISHAL KUMAR BISWAS , (0115CS191119)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering**, **NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web based application for Employee management of NRI"** being submitted by **MEHA MALVIYA , (0511CS191003)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web based application for Employee management of NRI"** being submitted by **MOHAMMAD SAHIL , (0511CS191004)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To developm a Mobile Application for providing the online education"** being submitted by **SANDHYA JAISWAL , (0511CS191009)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To Develop a Web Application for Inventory Management system of NGI"** being submitted by **SURAKSHA SHARMA , (0511CS191011)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop and update the module for college website"** being submitted by **VIKASH KUMAR GUPTA , (0115CS191116)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Cursor Movement on object motion"** being submitted by **RITIK BHAWSAR , (0115CS191085)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop an application for Face recognition based attendance monitoring system"** being submitted by **SHRIKANT RAI , (0115CS191100)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop a web based application for Health based Electronic card"** being submitted by **AYUSH KUMAR , (0115CS191015)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop a marksheet development Module and I Card Module for our College ERP"** being submitted by **PRIYANKA VISHWAKARMA , (0115CS191072)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web application for Fee Management of NGI"** being submitted by **SANDEEP KUMAR SAW , (0115CS191089)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web based application for Employee management of NRI"** being submitted by **SANJAY KUMAR PANDIT , (0115cs191090)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop the Door automation system using Bluetooth and Implemented on Room No. S- 9"** being submitted by **SANSKAR CHTURVEDI , (0115CS191091)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering**, **NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop the Door automation system using Bluetooth and Implemented on Room No. S- 8"** being submitted by **SATYAM DEV , (0115CS191093)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web based application for Employee management of NRI"** being submitted by **SEJAL GUPTA , (0115CS191095)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Crime Rate Prediction using K-Mean"** being submitted by **PUNIT PAWAR , (0115CS191075)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web application for a Avalon"** being submitted by **RAHUL GAYAKWAD , (0115CS191078)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop and web application for Data allocation and data analytics, module of a college ERP"** being submitted by **RAHUL SINGH , (0115CS191079)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop and update the module for college website"** being submitted by **RAJDEEP GUPTA , (0115CS191081)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To Develop an AI based Desktop Voice Assistant"** being submitted by **NILESH NAGLE , (0115CS191058)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop an application for Face recognition based attendance monitoring system"** being submitted by **SATYAM SHUKLA , (0115CS191094)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

Guided By

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Assistant Professor
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Director / Principal
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NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop a web based application for Health based Electronic card"** being submitted by **LAVKUSH PAL , (0115CS191043)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **Develop an application for Face recognition based attendance monitoring system"** being submitted by **MAYANK KHARE , (0115CS191045)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT COMPLETION CERTIFICATE

This is to certify that the work embodied in this project entitled **To develop a web application for Visitor's Information System of NGI"** being submitted by **NEHA MANDORI , (0115CS191056)** in partial fulfillment of the requirement for the award of the degree of the **Bachelor of Technology (Computer Science and Engineering)** to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) is a record of bonafide piece of work, carried out by them under our supervision and guidance in the **Department of Computer Science and Engineering, NRI Institute of Information Science and Technology, Bhopal (M.P.).**

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NIIST, Bhopal

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Internship Report





Data Analysis Process
of
INNOVATIVE RESEARCH AND CONSULTANCY

Prof. Anurag Shrivastav

HOD, CSE

NIIST

RGPV University

Harshal Rajput

Enroll. 0115CS191034

8th SEM, CSE

NIIST

Date of Submission: 16 April 2023

ARIST AUTOMATION

ISO 9001:2015 Certified Company

9001:2015

This Credential is awarded to Mr./Ms. **HARSHAL RAJPUT**
With Enrollment Number AA/BPL/21-22/INT/171 Successfully completion of Internship On : DATA ANALYTICS

Date: DEC 2022 - JAN 2023

MSME
सूक्ष्म, लघु एवं मध्यम उद्योग
MICRO, SMALL & ENTERPRISES

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Acknowledgement:

All admires to almighty God who has created me and has given me opportunities and strength to work with people. This internship report might never have been completed without the necessary practical knowledge, support of many books, articles, websites, and primary data. It enhanced my knowledge on Data Analysis Process. Thanks to all those persons, who have assisted me, providing me co-operation. I would like to express my special thanks to Prof. Anurag Shrivastav, Head of Department, Computer Science and Engineering, NIIST supervision, co-operation and advises. Then I would like to thank Career Service Office (CSO) of RGPV University, where I received support of requirements of finishing the internship program and daily updates of university.

I was placed in Data Analysis team to work as an intern from December 2022. The members of Innovative Research & Consultancy ltd. (IRC) management were very co-operative and helpful. They helped me through providing various data, guidance and direction.

Executive Summary:

There is a great supportive role of Research industry human society. It plays a vital role for the decision making of a company. The local research industry of India is developing their services day by day by following the multinational research firm. Innovative Research and Consultancy Ltd. (IRC) is one of local research firm

Innovative Research and Consultancy Ltd. (IRC) operate their operation over 9 years. In that time it did lots of changes in this sector and it promoted many new ideas in this sector.

The report on Data Analysis Process of Innovative Research & Consultancy Ltd. The data analysis is one of the major parts of research. The competition in this business is increase day by day Innovative Research & Consultancy Ltd competitors are coming up with more innovative ideas. Also, there is much scope of improvement in its ongoing process flow.

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Origin of the study:

This report has been prepared as a part of the internship program which is an essential part of the MBA program under in the BRAC Business School (BBS) of BRAC University. This report was assigned by academic supervisor Prof. Anurag Shrivastav, HOD, CSE.

Objective of the study:

Broad Objective:

The purpose of the study is to understand the practical things and to make the bridge between theoretical and practical knowledge and also analysis of Data Analysis & Processing Department of Innovative Research & Consultancy ltd. (IRC) in terms of the Research sector. This study attempted to understand how an analysis team work in a research firm.

Specific Objective:

To find out how to analyze data for research purpose.

Scope of the study:

The scope of the study was strictly confined to the annual report & personal contact with the employees of Innovative Research & Consultancy ltd. (IRC). To collect the information I worked in the Data analysis & processing department as a senior executive. All other data related to the report was collected from websites of IRC & other related Documents.

Limitation of the study:

In spite of related peoples willingness I could not avail the full concentration as I supposed to have. The officers are extremely busy with their assigned tasks. On the way of my study, I have faced the following problems that may be turned as the limitations of the study:

1. Not available of sufficient written documents to give a comprehensive view.

2. Lack of the time of the busy key persons, necessary data collection

3. Some useful information cannot be expressed in this report for the reason of confidentiality.

Methodology:

Methodology is the process, technique or method of observation, survey and analysis. For smooth and accurate study everyone have to follow some rules and regulation. The study assign were collected from two sources:

Primary sources:

- ✓ Practical desk work
- ✓ Face to Face conversation with developer, customer and the manager of IRC
- ✓ Direct observations.

Secondary sources:

- ✓ Files & Folders
- ✓ Daily diary (Containing my activities of practical orientation in IRC)
- ✓ Website

In my report I tried to minimize the usage of secondary data as much as possible. I have used secondary data only in the cases where it was not possible for me to use primary data.

Organization Overview:

Innovative Research & Consultancy (IRC) Limited was established and started its operation in 2006, and obtained legal registration in 2008 to cater ever-increasing need of quality Market, Social Research services in India. With a highly dedicated team of qualitative and quantitative researchers, data analysts, and experienced data collection personnel, IRC is capable to conduct any type of qualitative and quantitative research projects in India. Their motto is to provide our clients - high quality research at competitive cost ensuring best value for money.

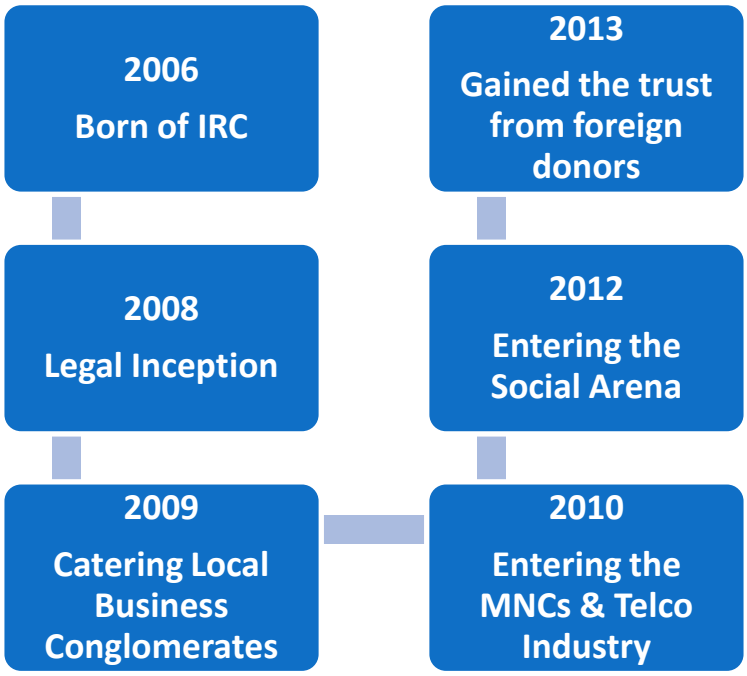
Vision:

To be a partner of our valuable clients, associates and stakeholders by assisting and providing them with insights to reduce risk in any decision making process.

Mission:

- To continuously innovate and leverage technology to bring cost effective and quality solutions to clients.
- To acquire, retain and build long-term relationship with key stakeholders.

Company History:



As of today:

1. IRC has one of the largest field setup in the country.
2. IRC is conducting the largest mystery shopping study ever conducted across 64 districts.
3. Conducting continuous study across 64 districts of the country.
4. Conducting continuous study across all the Thana/Upazilla of the country.
5. Conducting study with the largest sample size ever worked in FMCG/Telco industry.
6. Faith of foreign donor agencies.
7. Research partner of largest local conglomerate.
8. Research partner of largest financial institute of the country.
9. Study partner for prestigious knowledge hub (university) of the country.

Company Service

Basic Service:

1. Research Designing
2. Data Collection
3. Data Handling/Management
4. Advanced Data Analysis
5. Reporting
6. Consulting

QUANTI Research (customized)

1. Product/Concept Test
2. Customer/Retailer Satisfaction Study
3. Mystery Shopping
4. Usage & Attitude Study
5. Ad/Promotion Evaluation

QUALI Research

1. Focus Group Discussion
2. Depth Interview
3. Observation

Social Research

1. Baseline Survey
2. Pre and post Evaluation studies
3. Impact Assessment
4. Household Income and Expenditure Studies
5. Socio-Economic Studies
6. Migration Issue

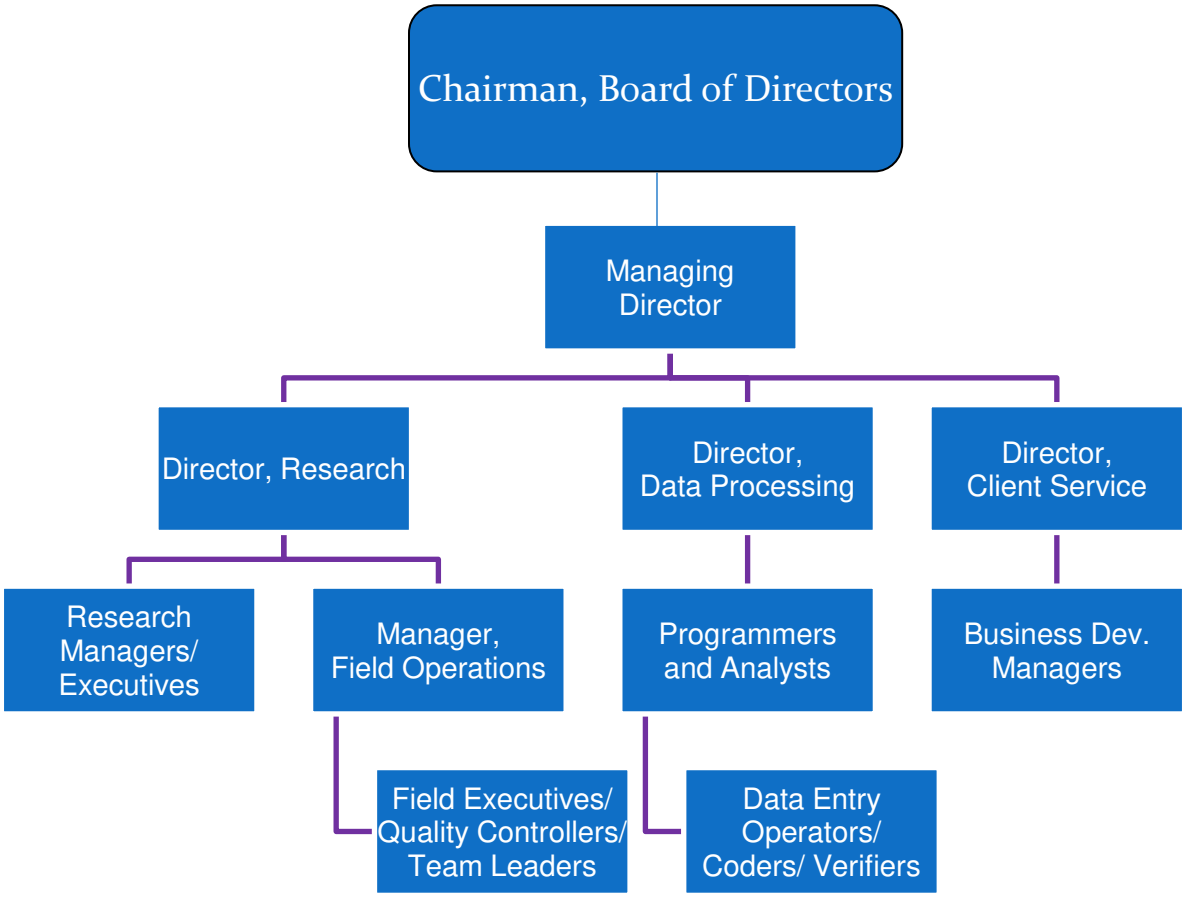
Tracking Study

1. Retail Audit/ Census
2. Consumer Tracking
3. Brand Tracking

Quality Control Mechanism:

- IRC strictly believe that only quality of information can ensure decision-oriented and effective output for any research project.
- Therefore, strong quality control measures are taken in all stages of the research – from research design to delivery of the outcomes.
- MRS and ESOMAR Code of Conducts have also been followed to maintain ethics of market and social research.

Company Organogram:



Clients:

























Helping you live better

Projects:

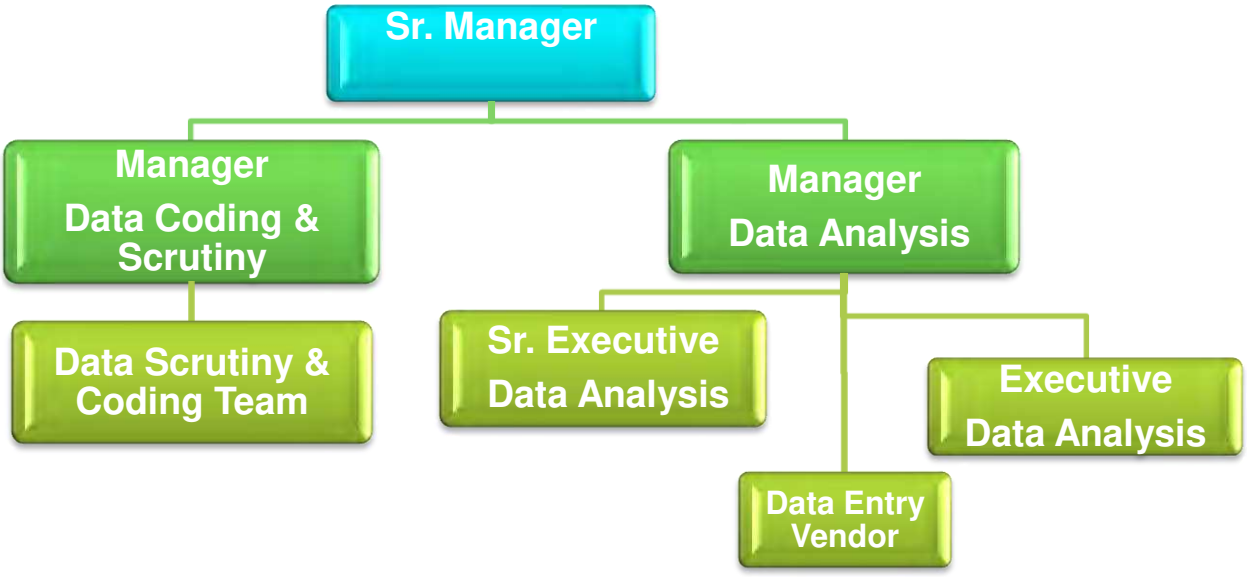
- Service Quality Measurement of BRAC Bank from 2011-2014
- Feasibility Study on Co-Branded Debit Card of BRAC Bank
- Affordable Housing Study of BRAC Bank
- Service Quality Measurement of Prime Bank from 2010-2012
- Employer of Choice Study 2012 of The City Bank
- Global Grant Governance Study of BBC Media Action
- Lifeline Intervention Study on Tornado of BBC Media Action
- User Impact of Hybrid Minipack Vegetable Seeds, Kharif 2012 of Swisscontact/ Katalyst
- Consumer Satisfaction Study on Condom of SMC
- Brand Name Study on IUD and Implant of SMC
- Business Environment and Regulation Study ILO
- Statistically Based Observation (SBO) of Barguna-2 Bi-election & 4th Upazila Election (3rd Phase) – 2014 of Democracy International
- RMG Labor Opinion Poll of Democracy International
- Strengthening Govt.'s Capacity to address health of migrants through multi-sector approach of International Organization for Migration (IOM)
- Retail Visibility Study, Territory-Wise Market Share Study (TWS) and GNPS Study of Grameenphone
- Ad Evaluation Studies of Banglalink and Citycell
- Product Test on Toilet Soap, Concept Test on Hair Oil, Ad Evaluation on Hair Oil of Square Toiletries
- Retail Audit, Retailer understanding and Consumer Satisfaction Study of Square Consumer
- Nestea Ice Tea Product Test
- Retail Census on Tiles & Sanitary Ware Market
- Feasibility Study on Branded Egg Market

- Feasibility Study on Glassware
- Feasibility Study on Ice Cream Market of Bangladesh

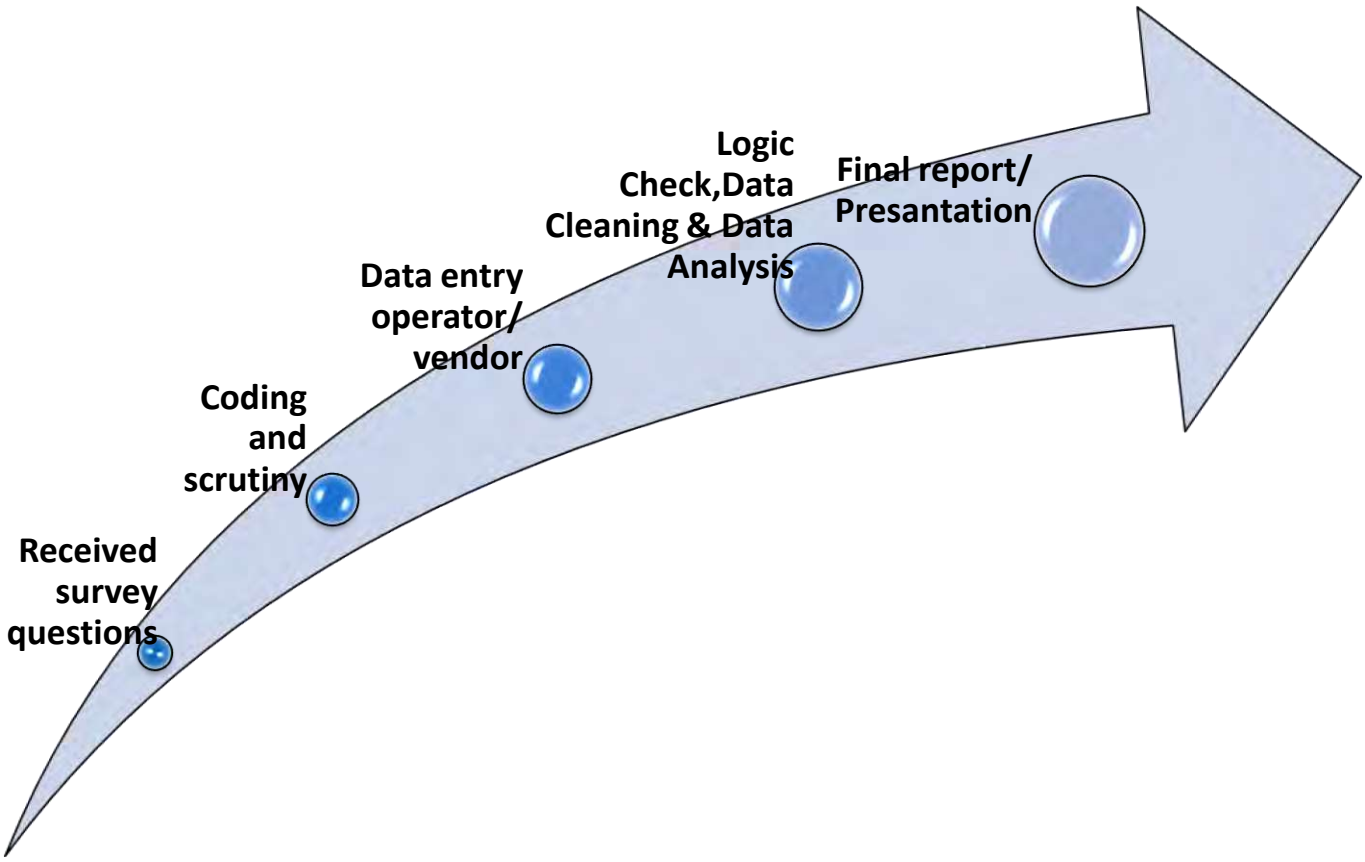
Department Overview:

Data analysis & Processing Department:

Data analysis & processing department plays a vital role in any research work. This department consider as the heart of the organization. Here the data are analyzed and convert the data into an understandable situation. The organogram of the department is given below:



Working Process:



Step 1: Firstly we received survey questions from the operation team.

Step 2: After receiving the questions, we check the questions whether they are properly fill up or not. If there is any deviation we return those questions to the operation team for back check. We give a serial number to the questions and doing coding the questions if necessary. This whole job done by a team named Coding & Scrutiny team. This team consists of 10 people. All of them are part time basis. Manager of coding & scrutiny team lead this team.

Step 3: When the coding and scrutiny is done, we provide the questions to our vendor for entry. We have 3 data entry vendors in Dhaka city. Sometimes we make arrangement of data entry inside of our office for emergency case or if the survey is too confidential. Data Analysis executive maintain the contact with the vendors.

Step 4: After completing of the data entry, we make the raw database. Then we check the data whether it's logical or not. It's known as data cleaning. If we miss something in scrutiny part here we make correction. If we find any deviation again we return it to the operation team or cancel those questions. After finishing the logic check we do the analysis. For data analysis we use Microsoft Excel, SPSS etc.

Step 5: In the final step we make the final analysis report as per client requirement. It may be in SPSS, Microsoft Excel, Microsoft Access and Microsoft PowerPoint. Then we provide those database to the researcher and the business development department for handover to the client.

Job responsibility:

I am working as a senior executive at IRC from September 2013. My core job responsibility is to do data analysis and logic check of the database. My detail job responsibilities are given below:

- ✓ Internally brief Field Team, Data Processing Team and Field Work Control Team on project concepts & requirements.
- ✓ During field work ensure data quality through field visits.
- ✓ Quality logic Checking of Data
- ✓ Data Cleaning
- ✓ Data analysis
- ✓ Generate outputs/tables/charts etc. Prepare PowerPoint slides

Project Work:

Introduction:

Telecom is a fast changing dynamic sector. Continuous change in technologies and opportunities created by such change and consequent impact on the customer/user necessitates changes and adaptation of policies in the sector. Countries which respond timely and appropriately to such change grow successfully whereas others who fail. Lag behind, remaining trapped in the vicious circle of poverty and under-development.

India being a developing country is fast trying to catch up with the developed world, and adapt its policies. In response to changing needs, opportunities and requirements in different sectors. Including the telecom sector.

Due to the inherent dynamism of the telecom sector and the speed with which the change is taking place therein. There is a convergence of technologies of knowledge. Expertise, experience and of policies and strategies to achieve defined policy objectives.

In order to materialize the strategic vision behind liberalization of the telecom sector the Indian Govt. announced the national Telecom Policy 1998, with the main objective creation of an environment of competition by establishing market oriented regime. Appropriate sets of regulations standards, procedures, conditions and investment climate so that the users have multiple choices for access to networks and market of different services, systems and carriers at a competitive and reasonable price. With a view to ensuring a level playing field for all operators in multi-operator environment, the Government in pursuance of the Bangladesh Telecom Act (BTA) 2001 established in July 2001. The Indian Telecom Regulatory Commission (BTRC) which started its operation from 31st January, 2002. Previously, the Govt's Telecom Department BUB, as per the Telegraph Act 1885 had the exclusive privilege of acting both telecom operator and regulator until 1995.

Presently there are seventeen operators in india. Among these six are mobile operators and others are PSTN operators. The PSTN operators are Rankstel, Onetel. BanglaPhone. Jubok Phone. Peoples Telecom. National Telecom.

Methodology:

To define any research problem and give a suitable solution for the problem, a sound research plan is inevitable. Research methodology underlines the various steps involved by the researcher in systematically solving the problem with the objective of determining various facts.

Research Design:

A research work will be successful, only with a sound research design .The research design for the purpose of the study is Analytical in nature.

The major purpose of analytical research is to analyze the state affaires as it exists at present. Analytical research includes survey and in-depth analysis of variables. The research plan calls for gathering primary and secondary data. The Sampling Method adopted for the present study is Simple Random Sampling.

Methods of Data Collection:

In this research, the collection of data is from various sources and the two types of data.

Primary Data

Secondary Data

Let's know about all the methods of data collection:

Primary Data: Primary data collection was mainly done through questionnaires, direct interview. The respondents were approached personally and were requested to fill up the questionnaire.

Research Instrument: The instruments adopted for the primary data collection is through "QUESTIONNAIRE".

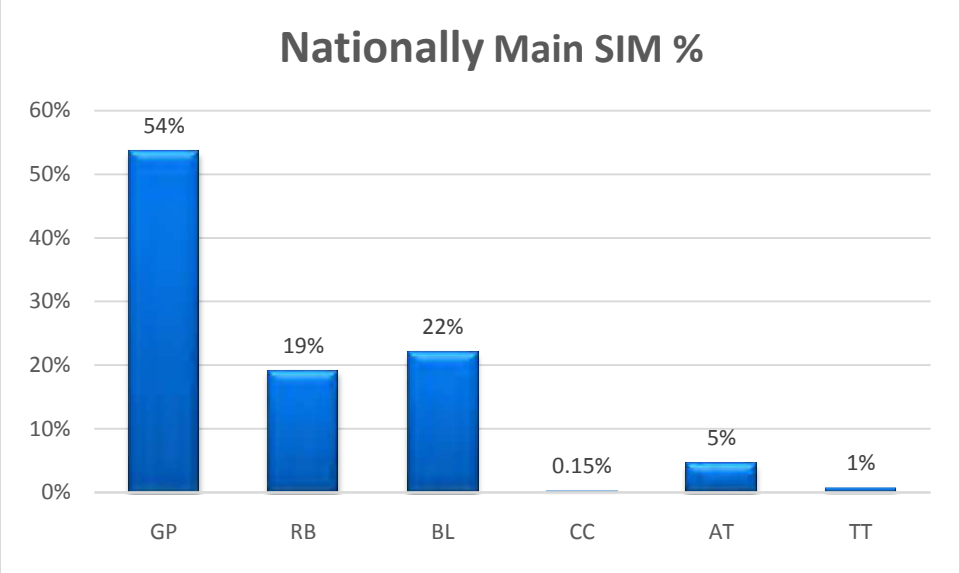
Sampling plan: Sampling plan includes sampling unit used in the survey. It also includes the sampling size and the sampling procedure used for the survey. Sampling plan consists of two kind of sampling unit and sampling size. The sampling unit is the Mobile phone user whose age more than 15 years and the sampling size was selected based upon simple random sampling. For the purpose of study 92243 samples are taken.

Sampling Frame: The study has been carried out all over the country.

Analysis Data: Data's are analyzed through analytical statistics using Numerical Methods are tested.

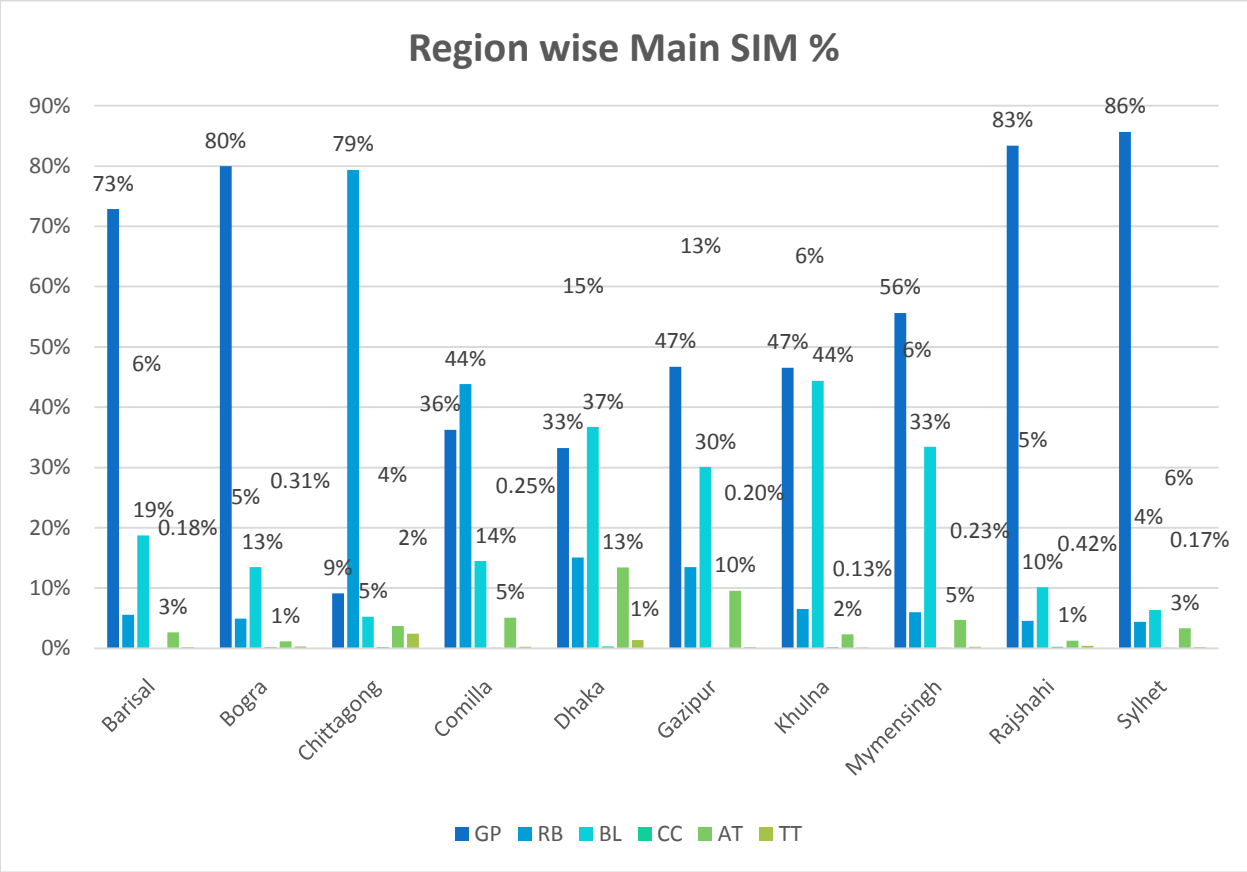
Presentation Data: Percentage method, tables and charts are used to present the data.

Analysis Part:

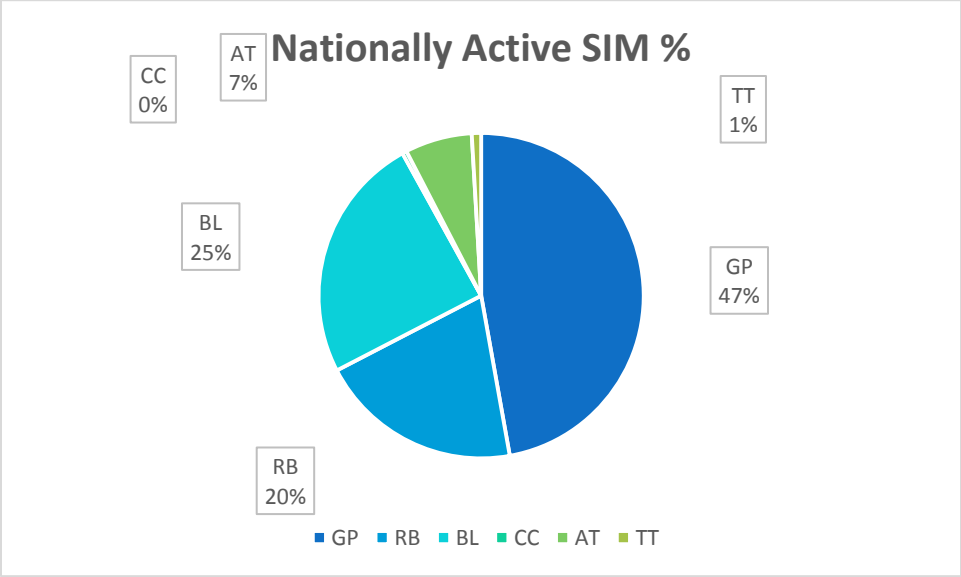


Description: In this project main SIM means a respondent who spend more money in a particular SIM. For example, a person have two SIM. One is Grameenphone and another is ROBI. He spend 300 taka in Grameenphone and 200 taka in ROBI. In this case Grameenphone considered as his main SIM. In our analysis we found that nationally 54% people use Grameenphone as their main SIM. It represents that they are the market leader in the telecommunication sector. Banglalink is in the second position with 22% market share and ROBI

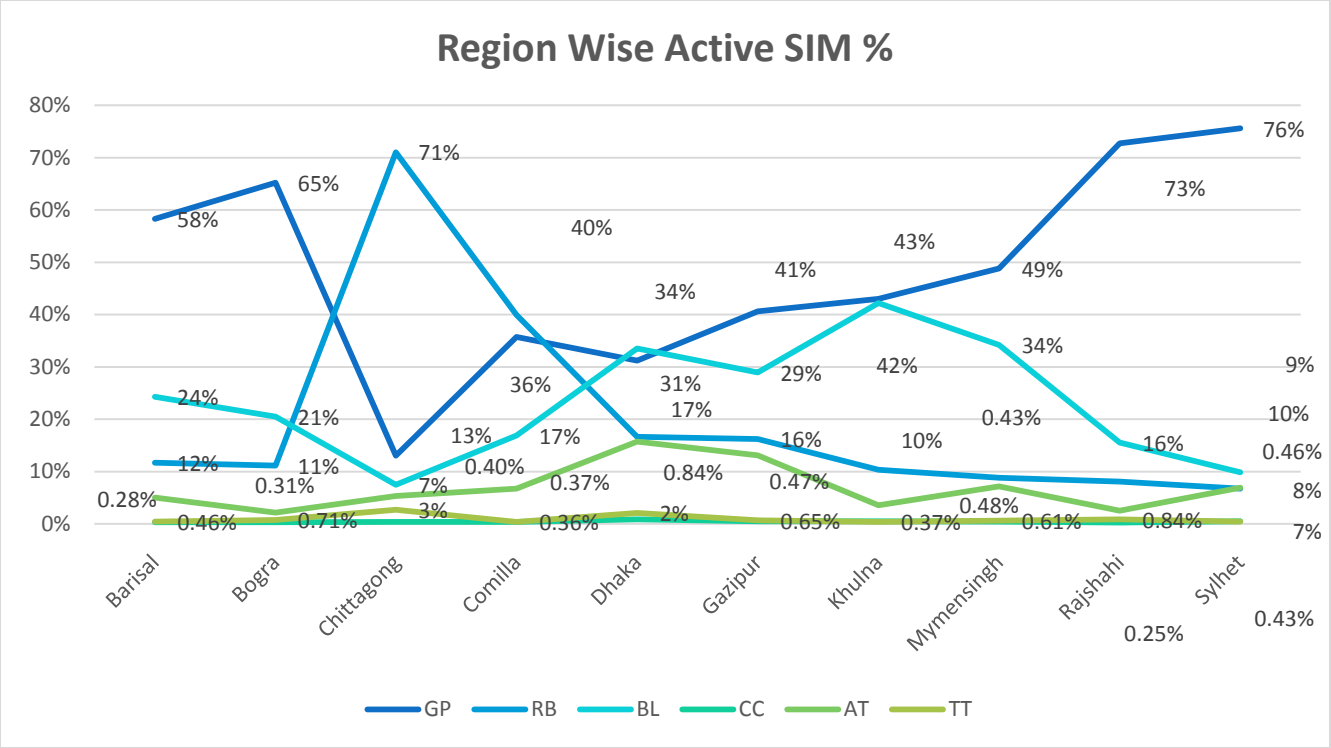
is in the third position with 19% market share. Other three operators like Airtel, citycell and TeleTalk acquire only 6.15% market share.



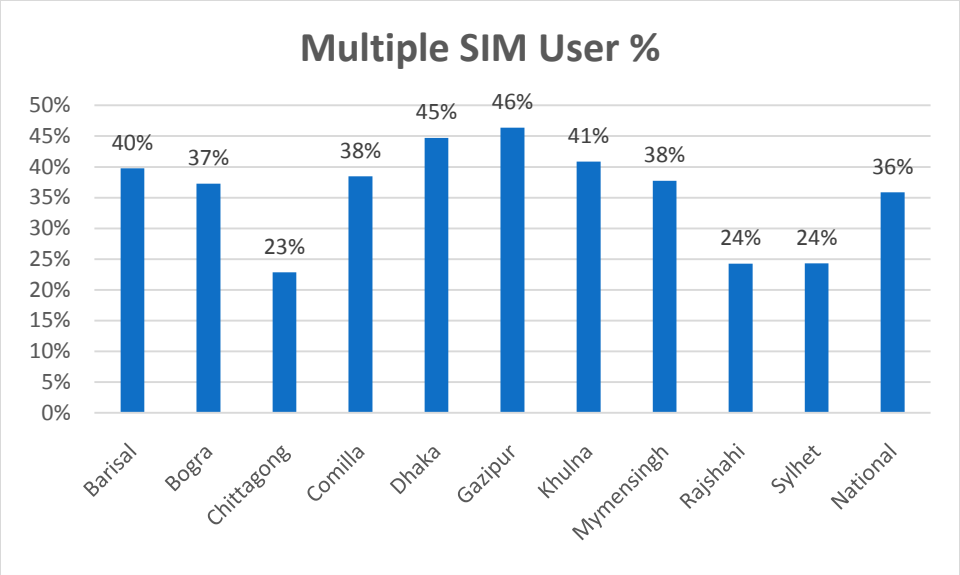
Description: In this part we try to find out region wise market share of the operators. For the purpose of the study we divided the whole country in 10 regions. Among this 10 regions we see that Grameenphone holds the leading position all the regions accept in Dhaka, Chittagong and Comilla region. In this two region ROBI is the market leader with 79% market share in Chittagong and 44% market share in Comilla. Where Grameenphone has only 9% market share in Chittagong and 36% market share in Comilla. Grameenphone has highest market share in Sylhet region with 86% market share. In Khulna region and Dhaka region there is a close completion between Grameenphone and Banglalink. In Khulna region Grameenphone has 47% market share and Banglalink has 44% market share. In Dhaka region Grameenphone has 33% market share and Banglalink has 37% market share. Airtel has market share 3% to 5% in all regions but in Dhaka region they have 13% and in Gazipur region they have 10% market share. In Bogra and Rajshahi region Grameenphone dominating with 80% and 83% market share.



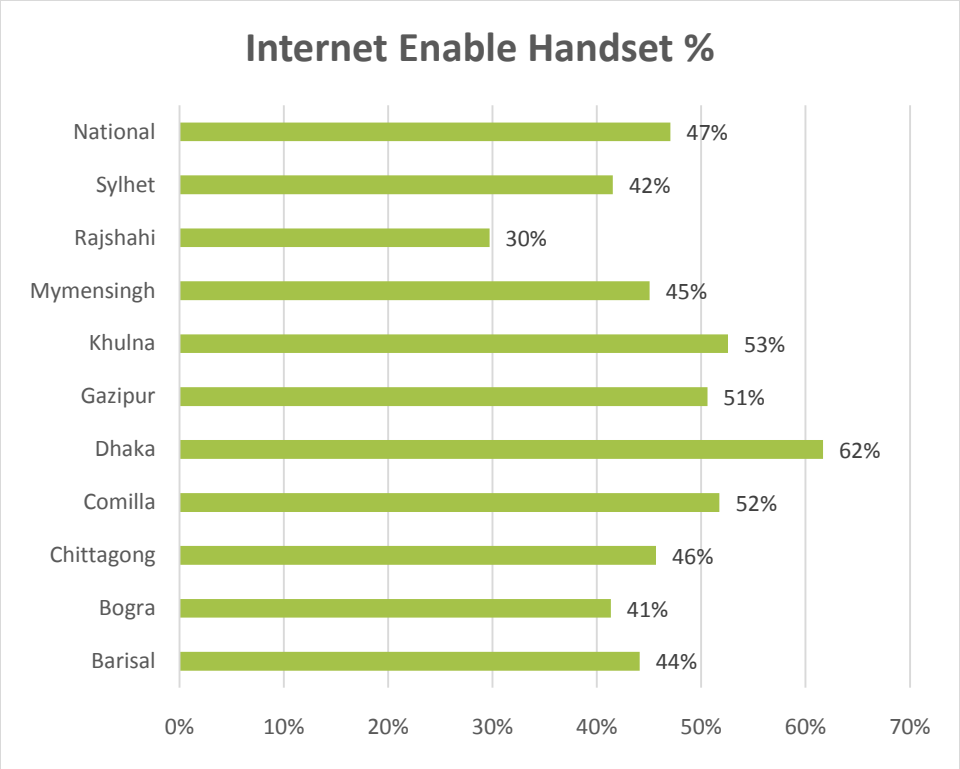
Description: A respondent who use a SIM once in last 30 days is considered as an active SIM. As we know that Grameenphone is the market leader so they have the highest active SIM in the market which 47% nationally. As like market share in this case Banglalink is in second position with 25% active SIM and ROBI is in third position with 20% active SIM. Though Airtel has only 5% market share but they have 7% active SIM nationally.



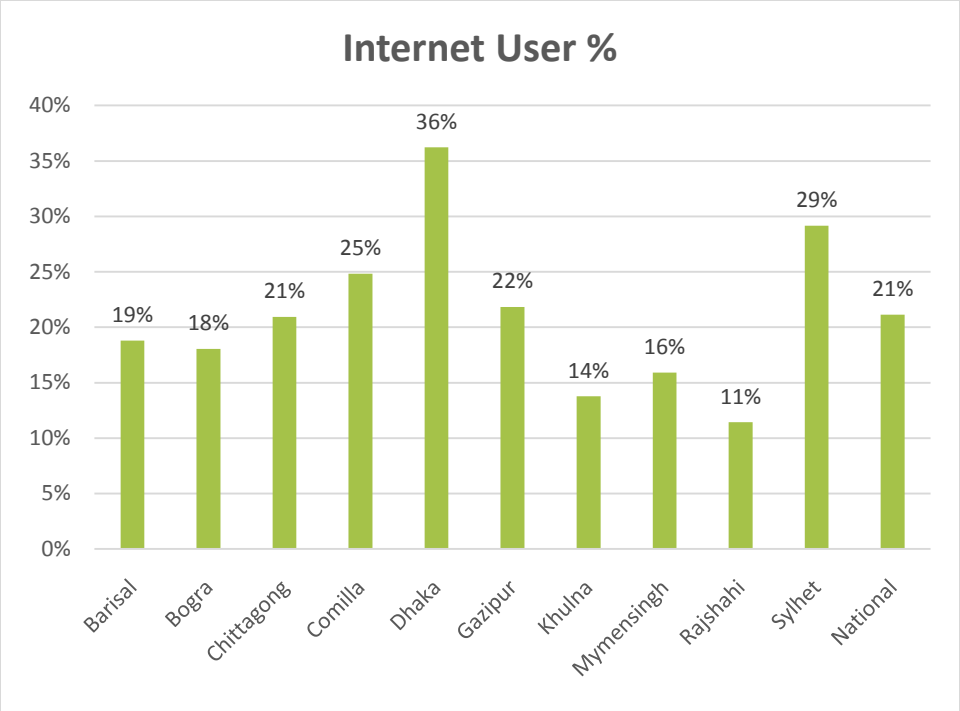
Description: In region wise active SIM the findings is same as region wise main SIM %. Grameenphone is in the leading position accept Chittagong and Comilla region. In this two region ROBI is the market leader with 71% active SIM in Chittagong and 40% active SIM in Comilla. In Dhaka region Banglalink has more active SIM than Grameenphone which is 34% and Grameenphone has 31% active SIM. Here the trend is same as main SIM. But in Khulna region though Banglalink is the market leader but Grameenphone has little bit more active SIM than Banglalink. In Sylhet region Grameenphone has 76% active SIM which is highest among all 10 regions.



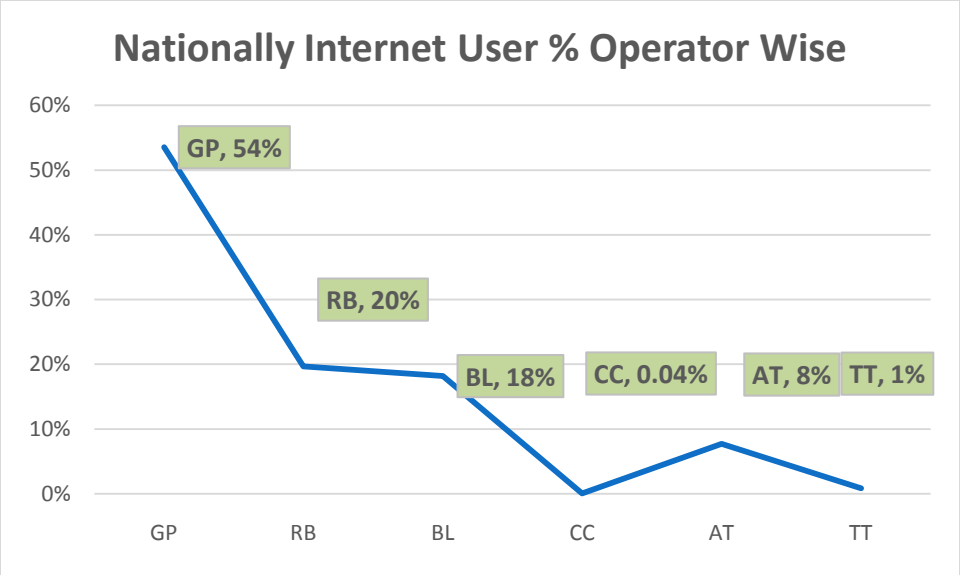
Description: A respondent who use more than one SIM is considered as a multiple SIM user. Nationally 36% people use more than one SIM. Number of multiple SIM user in Gazipur is 46% which is the highest. Dhaka region is in the second position. But in Chittagong, Rajshahi and Sylhet region comparatively multiple SIM user is lower than other region. In this three region multiple SIM user is less than 25%. In this three region only one operator dominating the market. In Chittagong ROBI and Grameenphone dominating in Both Rajshahi and Sylhet. Other operator's presence is lower so people use only one SIM in this three region.



Description: In this study we try to find out the how many people using internet enable handset. Nationally 47% people are using internet enable handset. Dhaka region is in the leading position where 62% people using internet enable handset. Khulna region is in the second position with 53% and Comilla region is in the third position with 52%. In this two region people got smart phone from their relatives who are living outside of the country. Though Chittagong is the commercial capital but here 46% people using internet enable handset. In Rajshahi region only 30% people are using internet enable handset due to their economic condition and geographical location. More than 70% people are living in rural areas in Rajshahi region. In other regions the number of people who are using internet enable handset is close to the national percentage.



Description: Nationally 21% people are using internet through mobile operators. In Dhaka 36% people are using internet through mobile operators. Sylhet region is in the second position where 29% people are using internet. In Rajshahi region only 11% people use internet because here people are using basic phone and we find that only 30% people have internet enable handset so it's natural that they are not able to use internet through mobile phone. But surprisingly in Khulna region 53% people are using internet enable handset but only 14% people are using internet through mobile operators. The reason may be they prefer broadband line or they are not much aware about internet data package.



Description: In internet service facility Grameenphone is in the leading position where 54% people use Grameenphone internet in mobile. Here ROBI is in the second position while they are in third position in terms of main SIM and active SIM. People use more ROBI internet service rather than Banglalink. 20% people use ROBI internet while 18% people using Banglalink Internet service.

Findings:

1. Undoubtedly Grameenphone is the market leader in the telecommunication sector.
2. Grameenphone dominating in Barisal, Bogra, Rajshahi, Sylhet, Mymensingh and Gazipur region.
3. ROBI is dominating in the Chittagong and Comilla region. On the other hand Banglalink is dominating in Dhaka and Khulna region.
4. Airtel has most market share in Dhaka region rather than other nine regions.
5. Citycell and TeleTalk are in declining position.
6. Though people are using internet enable handset but Mobile Internet user in is still low.
7. Mobile internet users are comparatively lower in rural areas.
8. Though Banglalink is in the second position in the market but people prefer ROBI for mobile internet than Banglalink.

Recommendations:

1. Grameenphone need to take special care for gaining market share in Chittagong and Comilla region.
2. Grameenphone should continue their activities to maintain their dominance accept Chittagong and Comilla region.
3. Banglalink need to maintain their effort to retain the position otherwise they will Lose their position to ROBI.
4. ROBI has to work in Barisal, Bogra, Rajshahi, Sylhet and Khulna region because they have market share in those regions is below 10%.
5. Banglalink should work for their internet package.
6. Citycell need to change their CDMA technology to sustain in the market place otherwise they have to shut down their business.
7. All operators need to take special care for mobile data. It's a huge opportunity for them because now people easily get internet enable handset.
8. With 3G and provision of data services, we expect mobile telecom sector to continue to be the highest contributor in to FDI.

Limitations of the Study:

In spite of my untiring effort, I guess there may be still some shortcoming prevailing in the report due to:

- Respondents may not give an accurate data.
- Busy nature of respondents.
- Respondent's bias towards the certain Telco operators.
- Lack of response from customers & resistance.

Despite these limitations I tried my best to collect necessary data and information that have been analyzed in the subsequent section.

Conclusion:

The sector of telecommunication industry in India is emerging day by day. Though there are some problems in the sector of telecommunication in India, there are some prospects also have. If all telecom operator come in one platform for giving better service to all types of subscribes, then total industry will able to earn more profit and confidence of general subscribers.

The buyer is powerful in the industry, but since the market is growing largely, it will be easy for the company to hold its own share. Because of poverty the population will be unlikely to avail the switching cost. And this also reduces the risk of high availability of substitutes. The supplier is not powerful in this case which is a plus for the company and the company can play with the price to keep the production cost low. Since the market is yet to be matured and growing very fast. I assume that the suppliers companies am also increasing. Some multinational companies are showing their interest to enter into the market. This can lead some new suppliers to arrive into the market and make the environment more competitive. So at some stage the bargaining power of the suppliers will become very low.

So from the above discussion, it can be said that the Indian telecom market has a lot of potential to offer considering strategically ignorable or somehow alterable threats. The market looks very potential and prospective. Lots of opportunities are waiting.

References:

1. http://www.ircltd.com.bd/
2. Research report on overview of mobile telecommunication industry of Bangladesh by Imtiaj ijaz ahmed Dhaka University

INTERNSHIP REPORT

A report submitted in partial fulfillment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE & ENGINEERING

BY

Mr.Hrishabh Tiwari

Enrollment No. (0115CS191035)

Under Supervision of

Mr. Dheeraj Saxena

Avyaan Management Private Limited, Bhopal

CIN: U74910MP2022PTC061300

(Duration: 15 Sep, 2022 to 15 Dec, 2022)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL, M.P

SESSION Jan-Jun 2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Mr.Hrishabh Tiwari (0115CS191035)** is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Avyaan Management Private Limited Bhopal M.P.**

Prof. Mahendra Sahare
Internship Coordinator

Prof. Anurag Shrivastava
HOD , CSE, NIIST, Bhopal

CIN:U74910MP2022PTC061300

Date: 14-Sep-2022

Offer Letter

Mr. **Hrishabh Tiwari**
162, Bhawani
Dham,Phase-2,
Bhopal, 462041

Sub: Internship Offer Letter

Dear Mr. **Hrishabh Tiwari**,

On behalf of Avyaan Management Pvt Ltd., we are elated to inform you that you have been selected for the position of 'Software-Engineer' internship with our company. On your acceptance of this offer letter, you will be required to join the organization from Sap 15, 2022.

I would like to inform you that the duration of this internship will be 3 months and it will be an paid internship and its stipend will depend on their performance. During this time, your employment status with Avyaan Management Pvt Ltd.will be temporary and therefore, you will not be entitled for kind of privileges that other employees of the company are entitled to.

Your internship will end on Dec 15th, 2022, and we will issue you a certificate based on your performance at the end of the internship. I would also like to highlight that the company holds complete rights to terminate your internship anytime during this period with or without any reason.

During your internship, you will get access to different kinds of confidential information about the company and by accepting this offer letter, you agree that you will take complete care in maintaining the confidentiality of all the information you come across and by any means, you will not be using it for any kind of personal benefits or reasons other than work related tasks. On completion of your internship, you will be required to handover all the official documents, laptop and other company possessions that will be given to you during your internship.

By accepting this offer letter, you agree to all the terms and conditions that have been mentioned above and you agree that you will be following all the rules and regulations at the company, and you will also be observing all the practices and policies that define the working and conduct at the company.

We look forward to having you onboard and we are hopeful that this association will be mutually beneficial to both the parties. If you have any other queries, please feel free to write at hr@avyaanmgmt.com. You will need to express your acceptance to the appointment as trainee with our company by signing the copy of this document and sharing it with us by post.

Congratulations and welcome aboard.

Thanking You

For Avyaan Management Pvt Ltd



HR Manager

Certificate of Internship Completion

162, Bhawani
Dham,Phase-2,
Bhopal, 462041

Sub: Internship Completion Letter

This is to certify that **Hrishabh Tiwari** has successfully completed **3 Months** from of internship with **Avyaan Management pvt. Ltd.** from (15-Sep 2022 to 15-Dec 2022). During the course of the internship, **Hrishabh Tiwari** demonstrated a high level of commitment, professionalism, and enthusiasm towards the assigned tasks.

Hrishabh Tiwari was involved in many projects and showed a remarkable level of aptitude and expertise in programming languages like HTML, CSS, JAVASCRIPT and REACT JS. The internship program provided **Hrishabh Tiwari** with a valuable opportunity to gain practical experience in It Industry and software development, and we are confident that these skills and experiences will prove beneficial in programming.

We wish **Hrishabh Tiwari** all the best in programing and are confident that **Hrishabh Tiwari** will continue to excel in their endeavors.

Thanking You

For Avyaan Management Pvt Ltd

HR Manager

ACHNOWLEDGEMENT

First I would like to thank **Mr. Dheeraj Saxena**, **Avyaan Management Private Limited Bhopal** for giving me the opportunity to do an internship with in the organization. I also would like all the people that worked along with , **Avyaan Management Private Limited Bhopal** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebted to Director **Dr. Rajeev Arya** for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Prof. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Mahendra Sahare,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Hrishabh Tiwari

(0115CS191035)

ABSTRACT

The Company:

, **Avyaan Management Private Limited Bhopal** is an independent software testing and Technical service provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutions we provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Avyaan Management Private Limited Bhopal** understands this gap and bridges it with its best in class testing and technical services. , **Avyaan Management Private Limited Bhopal** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical support by deploying industry's most reliable technology solutions for technical services like unit, functional, GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implemented using PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the ones who have been through the –school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects we saw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all, the interviews yielded 150 pages of transcripts. In one organization, two different projects were interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of the organizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development of the product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because of the immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript,

Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in a few hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

Code-

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Genius Voice Assistant</title>
  <img height="32" width="32" src="img/admin-fill.svg" />
  <link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css"
rel="stylesheet">
  <link rel="stylesheet" href="style.css">
  <link rel="stylesheet" href="bootstrap.css">
  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.1/css/all.css"
    integrity="sha384-vp86vTRFVJgpjF9jiIGPEEqYqlDwgyBgEF109VFjmqGmIY/Y4HV4d3Gp2irVfcrp"
crossorigin="anonymous">

</head>


<body>
  <video class="gif" src="./WhatsApp Video 2023-04-01 at 12.10.49 PM.mp4"></video>
  <!-- <video id="video" autoplay
    style="position:absolute;left:0px;top:0px;width: 320px; height: 240px; border: 1px
solid gray; display: none;">
  </video> -->
  <div class="container" id="chat-window">
    <div id="chatbox"></div>
    <div>

      <canvas id="canvas" style="position:absolute;width:0%; height: 0%;
left:0px;top:0px"></canvas>

    </div>
    <div id="chat-bar-bottom">
      <p></p>
    </div>
  </div>
  <div class="input-group" style="margin-top: 3% ; margin-bottom: 2%; border-radius: 5%;
width: 45%;">
    <input style="margin-left: 15%; margin-right: 0%; border-radius: 40px 0px  0px 40px;"
id="InputBox" type="text"
      class="form-control" placeholder="Type Here" aria-label="Recipient's username with
two button addons" name="msg"
      autofocus>
    <button style="margin-right: 0%; border-radius: 0px 0px 0px 0px;  " id="speak"
class="btn btn-outline-secondary"
      type="button" onclick="micOn()"> <span class="fas fa-microphone"></span></button>
    <button id="send-button" style=" margin-right: 15%; border-radius: 0px 40px 40px 0px;
"
      class="btn btn-outline-secondary" type="" onclick="sendButton()"><i class="fas fa-
paper-plane"></i></button>
  </div>

  <script src="FaceDetector.js"></script>
  <script src="WebcamManager.js"></script>

  <script>

  </script>
  <!-- face detection code ends -->
```

```
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
  <script src="//ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
  <script src="speak.js"></script>

</body>

</html>


/ face detection code starts here

// var count=0;
        var firstFaceDetected = false;
        var camStreamWidth = 640;
        var camStreamHeight = 480;

        var VIEW_WIDTH = 320;
        var VIEW_HEIGHT = 240;

        var video = document.getElementById("video");
        var canvas = document.getElementById("canvas");

        canvas.width = VIEW_WIDTH;
        canvas.height = VIEW_HEIGHT;

        var webcamParams = {
            video: {
                mandatory: {
                    maxWidth: camStreamWidth,
                    maxHeight: camStreamHeight,
                    minWidth: camStreamWidth,
                    minHeight: camStreamHeight
                }
            }
        };
        var webcamMgr = new WebCamManager(
            {
                webcamParams: webcamParams, //Set params for web camera
                testVideoMode: false,//true:force use example video for test false:use
web camera
                videoTag: video
            }
        );

        var faceDetector = new FaceDetector(
            {
                video: webcamMgr.getVideoTag(),
                flipLeftRight: false,
                flipUpsideDown: false
            }
        );

        webcamMgr.setOnGetUserMediaCallback(function () {
            faceDetector.startDetecting();
        });



        faceDetector.setOnFaceAddedCallback(function (addedFaces, detectedFaces) {
            setTimeout(() => {
                for (var i = 0; i < addedFaces.length; i++) {
                    console.log("[facedetector] New face detected id=" +
```

```
addedFaces[i].faceId + " index=" + addedFaces[i].faceIndex);

                    if (!firstFaceDetected) {
                        firstFaceDetected = true; // set the flag to true to indicate the
first face is detected
                        setTimeout(() => { // wait for 10 seconds
                            let firstMessage = "aaaaaaaa";
                            computerSpeech(firstMessage);
                            activationMassege();
                        }, 3000);
                    }

                }
            }, 3000)
        });



        faceDetector.setOnFaceUpdatedCallback(function (detectedFaces) {

            var ctx = canvas.getContext("2d");
            ctx.clearRect(0, 0, VIEW_WIDTH, VIEW_HEIGHT);

            ctx.strokeStyle = "red";
            ctx.lineWidth = 3;
            ctx.fillStyle = "red";
            ctx.font = "italic small-caps bold 20px arial";

            for (var i = 0; i < detectedFaces.length; i++) {

                var face = detectedFaces[i];

                ctx.fillText(face.faceId, face.x * VIEW_WIDTH, face.y * VIEW_HEIGHT);
                ctx.strokeRect(face.x * VIEW_WIDTH, face.y * VIEW_HEIGHT + 10, face.width
* VIEW_WIDTH, face.height * VIEW_HEIGHT);

            }
        });


        webcamMgr.startCamera();
// face detection code ends here



// speech recognition code starts here


opening for the various profiles and you can ask for the JD on the reception itself.";
        }

        else if(words.match("policies")||words.match("rules")){
            speech.text = "we are following each and every rule in which we are bounded
woth the INdian Govt rules of labour LAws tht we have registred with.";
        }

        else
if(words.match("work")||words.match("kaam")||words.match("activities")||words.match("work
ing")||words.match("type of work")){
            speech.text = "we are one of the leading service providers for domestic and
international clientsfor the domains like AI&ML industry in which we cover data
collection and data annotation along with contact center services of multiple clients
around the nation and we also prviding th digital marketing services to national and
international clients so overall and last bot not the least IT services like webste
```

```
devploepment and software devlopement plus virtual assitance for the details informations
you can ask speceficcaly the details of the perticular domains";
        }

        else if(words.match("working days")||words.match("office days")){
            speech.text = "We works all week days, and their is a day off in week as per
workers choice either sunday or either thursday";
        }

        else
if(words.match("leaves")||words.match("holydays")||words.match("chutti")||words.match("ab
sent")||words.match("closed")||words.match("off days")){
            speech.text = "As we work all week days so if someone wants leave he/she can
mail ho HR manager or leave qeuries, otherwise some action we be taken on the worker if
taking leave without informing HR.";
        }

        else if(words.match("forms")||words.match("registeration
form")||words.match("apply")||words.match("application
form")||words.match("documents")||words.match("resume")||words.match("cv")){
            speech.text = "self information form or interview form available at reception
desk";
        }

        else
if(words.match("attendance")||words.match("present")||words.match("fingerprint")||words.m
atch("absence")){
            speech.text = "We work 10:00 AM to 7:00 PM in all week days, While entering
the office workers have to punchin in the attendance monitoring device and vise-versa and
register your entery and outgoings at reception ";
        }

        else if(words.match("branches")||words.match("second
office")||words.match("local")||words.match("globle")){
            speech.text = " We have no branches, we have a main offce at 2nd Floor Shree
Ram Plaza ";
        }

        else if(words.match("washroom")|| words.match("restroom")||words.match("mens
washroom")||words.match("girls room")){
             speech.text = "Their are both men's and women's rest room's are available at
Avyaan office, they located at the left side of main enterance of office";
         }

         else
if(words.match("interview")||words.match("rounds")||words.match("hr")||words.match("first
round")||words.match("second round")||words.match("hr round")){
            speech.text = "normally there are 3 rounds 1. screening 2. technichal round
3. final round but it can be increadsed in exceptional cases ";
        }

        else if(words.match("processes")||words.match("office
work")||words.match("environment")||words.match("working place")){
            speech.text = "Avyaan Mangement has a quite good Working environment, Every
worker has their own table,chaire and desktop computer as well, and a ggod view of bhopal
at windoew";
        }

        else if(words.match("documents")||words.match("resume")||words.match("cv")){
            speech.text = "Resume/ CV needed while coming to give an interview, Theirfor
after all rounds of interview some document needed to submit to HR like- Marksheet 10
standard, Aadhar Card and two Photos. ";
        }
```

```
        else if (words.match("map")||words.match("map location")||words.match("avyaan
location")||words.match("location")||words.match("area")||words.match("company place"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management pvt. ltd. location page";
        window.open("https://goo.gl/maps/z8EjmmwzW2PMy4G39", "_blank");
        }

        else if(words.match("contact")||words.match("mobile
number")||words.match("email")||words.match("contact information")){
            speech.text = "You can contact us via phone :-  +91 0755-4940937 and via
Email :- connect@avyaanmgmt.com";
        }

        else if(words.match("company")||words.match("your company")||words.match("avyaan
management")||words.match("private limited")){
            speech.text = "In 2022, Avyaan Management started its journey towards service
industry exploring into divergent areas where BPO, KPO, RPO is a part as well as becoming
a pioneer in the field of Future AI. Over the year, we also expanded into different
service zones including AI/ML, Digital marketing, Chatbot. Customer support services
(24*7), Technical support services etc.";
        }

        else if(words.match("good morning")||words.match("morning")){
            speech.text = "A very Good morning to you!";

        }
        else if(words.match("good afternoon")||words.match("afternoon")){
           speech.text = "A very Good Afternoon to you!";
        }

        else if(words.match("good evening")||words.match("evening")){
            speech.text = "A very Good Evening to you!";
        }

        else if(words.match("about")||words.match("about abhiyaan")||words.match("about
company")){
            // "https://" is important!
            document.innerHTML = "Opening Avyaan Management pvt. ltd. About page";
            window.open("https://www.avyaanmgmt.com/about.html", "_blank");
            }

        else if(words.match("aaaaaaaa")){
            speech.text = "hi!, wellcome to avyaan. how may i help you?";
        }

        else if(words.match("thankyou")||words.match("thank
you")||words.match("by")||words.match("by by")){
            speech.text = "Glad to help you! ";
            console.log("hi");
            $("#chatbox").val("");
        }

        else if (words.match("open avyaan")||words.match("open avyaan"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management Web page";
        speech.text = "Opening Avyaan Management Web page";
        window.open("https://www.avyaanmgmt.com/", "_blank");
        }


        else if (words.match("open youtube"))
        {
```

```
        // "https://" is important!
        output.innerHTML = "Opening YouTube";
        window.open("https://www.youtube.com", "_blank");
        }

        else if (words.match("open onestate"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Onestate Coding on YouTube";
        window.open("https://www.youtube.com/channel/UCrphqZNc_r-KsOTeTKH5hwA",
"_blank");
        }

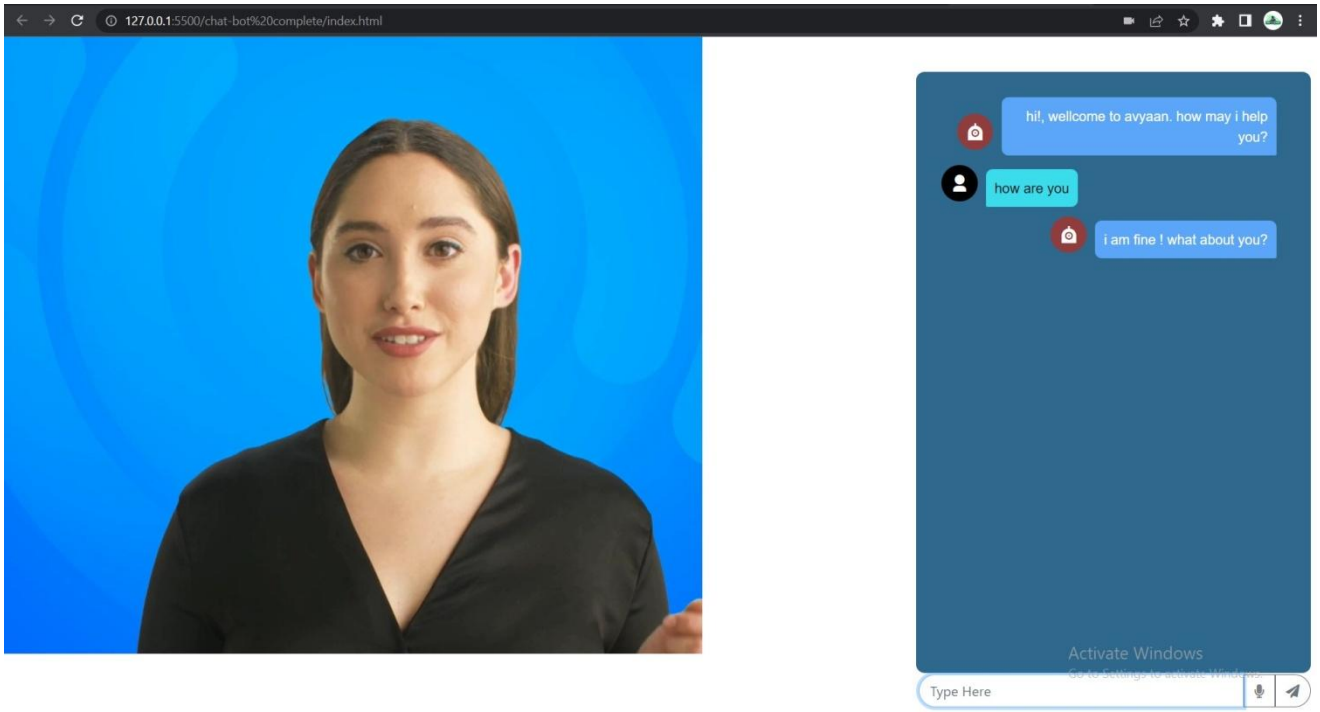
        else if (words.match("open light-lens"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Light-Lens on Github";
        window.open("https://github.com/Light-Lens", "_blank");
        }

        else{
            speech.text = "Sorry!, i didn't catch you";
        }

    };

// button.addEventListener("click",()=>{
//     recognition.start();
// });
```

5. SCREENSHOTS



6. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experience for all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

INTERNSHIP REPORT

A report submitted in partial fulfillmentof the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

BY

Mr. Punit Pawar

Enrollment No. (0115CS191075)

Under Supervision of

Mr. Kuldeep Sahu

SAIFY GROUP Private Limited, Indore M.P.

CIN: 23ANKPS8763R7ZR

(Duration: 03 January, 2023 to 05 April, 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE &

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Mr. Punit Pawar (0115CS191075)** is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **SAIFY GROUP PRIVATE LIMITED, INDORE MP.**

Internship Coordinator

HOD Department of CSE
Prof. Anurag Shrivastava
Computer science & Engineering
NIIST,Bhopal

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



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Internship Coordinator

HOD Department of CSE
Prof. Anurag Shrivastava
Computer science & Engineering NIIST,Bhopal

Date: 26/12/2023

Mr Punit pawar

Address:- Tapti ward
Multai (M.P) - 460661

SUB : LETTER OF OFFER

Dear

Punit Pawar

We refer to your recent discussions with us and are pleased to offer you the position of: "**DevOps Trainee Engineer**" in Saify IT Care.

Your job location is **Indore**. Your date of Joining will be **03/01/2023**.

You will report to '**DIRECTOR**', or any Person authorized by them from time to time.

Your **stipend will be Rs. 15,000/- (Fifteen Thousand) per month,** all inclusive. The details of the salary break up will be given to you at the time of joining.

At the time of joining, please submit copies of the following documents and produce originals wherever required:

- 2 Passport size photographs (Dress Code: Black blazer, white shirt. White Background).
- Copy of Educational certificates (From Std. X till graduation/PG/PHD etc)
- Relieving certificate, salary slip/certificate of the last pay drawn from the previous employer/Copy of Resignation accepted by Current Employer if applicable .
- Experience certificate from all past/previous employers.
- Form 16 and proof of earnings for the past year(in case of employed personnel)
- Pan Card & Address Proof.

Internship period will be of Three(3) months from the date of joining, after completion of internship period, there would be an pre placement offer based on your performance.
The detailed appointment letter will be issued to you on completion of all the joining formalities and scrutiny of the submitted documentation. In case, any of the documents submitted are found to be false or misleading, our offer stands cancelled.

If you find the above terms of employment acceptable, you are requested to sign the copy of this offer letter as a token of acceptance and submit it back to us.

Ayushi Sharma
Team- Human Resources

Candidate's Signature

SAIFY IT CARE

Akbar Villa, 14/1, RNT Marg, Street No. 1, Behind Dawa Bazar, Indore-452001 (M.P)

Internship Certificate

Date: 10 April 2023

TO WHOM IT MAY CONCERN

This is to certify that Mr/MS/Mrs **Punit Pawar** has successfully completed internship program from **03rd of January 2023 to 05th April 2023** as Developer Intern at **Saify groups, Saify IT CARE** Private Limited Indore during the internship program with us they demonstrate exceptional skill with the self motivated attitude to learn new things and implement them and to and with all of mention industrial standard their performance was excellent and was able to complete the project successfully on time.

We wish them all the best for future endeavor.

Regards,
Mana Bai Millwala
Company CEO

ACKNOWLEDGEMENT

First I would like to thank **Miss Ayushi Sharma**, HR from, **SAIFY GROUP, Indore** for giving me the opportunity to do an internship within the organization.

I also would like all the people that worked along with me **SAIFY, INDORE** with their patience and openness they created an enjoyable working environment.

It is indeed with a great sense of pleasure and immense sense gratitude that I acknowledge the help of these individuals. I am highly indebted to my Head of the Department **Prof. Anurag Shrivastava**, Director **Dr.Rajeev Arya** and Principal **Prof.Puran Gour** for the facilities provided to accomplish this internship.

I would like to thank my Head of the Department **Prof. Anurag Shrivastava** for his constructive criticism throughout my internship.

I would like to thank **Prof Mahendra Sahare**, Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends whole helped me in successful completion of this internship.

Punit Pawar

0115CS191075

ABSTRACT

Business intelligence (BI) systems depend on efficient integration of disparate and often heterogeneous data. The integration of data is governed by data- intensive flows and is driven by a set of information requirements. Designing such flows is in general a complex process, which due to the complexity of business environments is hard to be done manually. In this paper, we deal with the challenge of efficient design and maintenance of data-intensive flows and propose an incremental approach, namely Co Al, for semi automatically consolidating data-intensive flows satisfying a given set of information requirements. Co Al works at the logical level and consolidates data flows from either high-level information requirements or platform-specific programs. As Co Al integrates a new data flow, it opts for maximal reuse of existing flows and applies a customizable cost model tuned for minimizing the overall cost of a unified solution. We demonstrate the efficiency and effectiveness of our approach through an experimental evaluation using our implemented prototype.

Organization Information:

SAIFY GROUP is a professionally managed company with years of industry experience in developing and delivering Medical specific Software using latest technologies. Quality is the buzz word in today's world without which no organization can survive. Along with quality we at SAIFY GROUP. "your wellness is our desire" to take one step ahead and focus on Delivery of the solutions. We design processes that focus not just only on quality but also on delivery which increases the value to our global clients. Apart from training our employees on latest technologies, we also empower them to deliver exciting solutions to our clients. At the core SAIFY GROUP operates in three specific domains namely Health care & medical disposable product
We also offer our services Smart Care Blood Pressure Monitors- Professional, Smart Care Blood Pressure Monitor, Smart Care Pulse Oximeter, Mercury & Dial Blood Pressure Monitor, Mercury & Dial Blood Pressure Monitor Imported Aneroid, Mercury & Dial Blood Pressure and others.
Under each division we further provide specific industry solutions on focused domains with cutting edge technologies. We emphasize on building relationships with our clients by delivering projects on time and within budget. Programs and opportunities:
This ground up approach helps us deliver not only the solution to our clients but also add value to At the core SAIFY GROUP operates in two specific domains namely Health Care Surgical and Medical Instruments. We emphasize on building relationships with our clients by delivering projects on time and within budget.

Methodologies:

We follow a structured methodology for our projects which starts from designing the solution to the implementation phase. Well planned Project reduces the time to deliver the project and any additional ad-hoc costs to our clients, hence we dedicate majority of our time understanding our clients business and gather requirements. This ground up approach helps us deliver not only the solution to our clients but also add value to your investments.

Key parts of the report:

Under each division we further provide specific industry solutions on focused domains with cutting edge technologies.

Benefits of the Company/Institution through our report:

Under each division we further provide specific industry solution on focused domains with cutting edge technologies. We emphasize on building relationships with our clients by delivering projects on time and within budget.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field.
  However, a wide array of people can benefit from Training Internships in order to receive real world experience and
  develop their skills.
- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more.
- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.
- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.
  Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

Overview Of INTERNSHIP ACTIVITIES

January

Week 1	03Jan2023-07Jan2023	Office visit, Document verification, HR talk. Orientation and briefing of internship.
Week 2	09Jan2023-14Jan2023	Environment Setup. Learning and understanding the work flow.
Week 3	16Jan2023-21Jan2023	Received task and Started Modules.
Week 4	23Jan2023-28Jan2023	Introduction to Linux and Virtual Machine.
Week 5	30Jan2023-04Feb2023	Introduction to AWS(Amazon Web Services) module

February

Week 1	06Feb2023-11Feb2023	Git and GitHub Version control.
Week 2	13Feb2023-18Feb2023	Hands on experience on creating AWS account using AWS IAM (Identity and Access Management).
Week 3	20Feb2023-25Feb2023	Created 1st EC2 (Elastic Compute Cloud) instance and AWS Services.
Week 4	27Feb2023-04Mar2023	Worked on AWS S3 and CI/CD(continuous integration continuous deployment) using ArgoCD.

March

Week1	06Mar2023-11Mar2023	Connect EC2 (Elastic Compute Cloud) with S3 (Simple Storage Services) test task
Week2	13Mar2023-18Mar2023	Review from manager, Manager gave feedback and start working on feedback.
Week3	20Mar2023-25Mar2023	Started Working on main project learn how to maintain AWS instance and set alarm by AWS SNS (Simple Notification Services) use on email Show to manager
Week4	26Mar2023-1Apr2023	Worked on main project learn how to Monitor AWS instance and set alarm by AWS SNS on email

1. INTRODUCTION

The complexity of business environments constantly grows, both with regard to the amount of data relevant for making strategic decisions and the complexity of included business processes. Today's dynamic and competitive markets often imply rapid (e.g., near real-time) and accurate decision making. Relevant data are stored across a variety of data repositories, possibly using different data models and formats, and potentially crossed with numerous external sources for various context aware analysis. A data integration process combines data residing on different sources and provides unified view of this data for a user [1]. For example, in a data warehousing (DW) context, data integration is implemented through extract-transform- that extracts, cleans, and transforms data from multiple, often heterogeneous data sources and Finally, delivers data for further analysis.

There are various challenges related to data Flow design. Here we consider two: design evolution and design complexity. A major challenge that BI decision-makers face relates to the evolution of business requirements. These changes are more frequent at the early stages of a DW design project and in part, this is due to a growing use of agile methodologies in data Flow design and BI systems in general. But changes may happen during the entire DW lifecycle. Having an up-and-running DW system satisfying an initial set of requirements is still a subject to various changes as the business evolves. The data Flows populating a DW, as other software Artefacts, do not lend themselves nicely to evolution events and in general, due to their complexity, maintaining them manually is hard. The situation is even more critical in today's BI settings, where on-the-fly decision making requires faster and more efficient adapting to changes. Changes in business needs may result in new, changed or removed information requirements. Thus having an incremental and agile solution that can automatically absorb occurred changes and produce a Flow satisfying the complete set of requirements would largely facilitate the design and maintenance of data-intensive Flows.

In an enterprise environment data is usually shared among users with varying technical skills and needs, involved in different parts of a business process. Typical real-world data-intensive workloads have high temporal locality, having 80% of data reused in a range from minutes to hours.

The cost of accessing these data, especially in distributed scenarios, is often high. At the same time, intertwined business processes may also imply overlapping of data processing. For instance, a sales department may analyze the revenue of the sales for the past year, while Finance may be interested in the overall net profit. Computing the net profit can largely benefit from the total revenue already computed for the sales department and thus, it could benefit from the sales data Flow too. The concept of reusing partial results is not new. Software and data reuse scenarios in data integration have been proposed in the past, showing
that such reuse would result in substantial cost savings, especially for large, complex business environments. Data Flow re use could result in a significant reduce in design complexity, but also in intermediate Flow executions and thus, in total execution time too.

1.1Module Description:

Shopper:

======

1) User visit the site.

2) Products will be showed

3) If user selected the product and then save

4) User selected product is send to the Order.

5) If user wants to buy the product they can also buy.

Supplier

=======

1) send product details

2) send payment verification

3) Store buying detail

4) Store line items using join product and order

Order

==========

1) Store all the user details.

2) Order detail

3. SOFTWARE REQUIREMENTS SPECIFICATIONS

System configurations

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

Software Requirements:

Operating system : Windows 7/10.

Coding Language : MVC 4 Razor

Front-End : Visual Studio 2012 Professional.

Data Base : Amazon S3.

Hardware Requirement:

System : Pentium IV 2.4 GHz.

Hard Disk : 1TB.

Ram : 4GB.

4. TECHNOLOGY

3.1 Linux

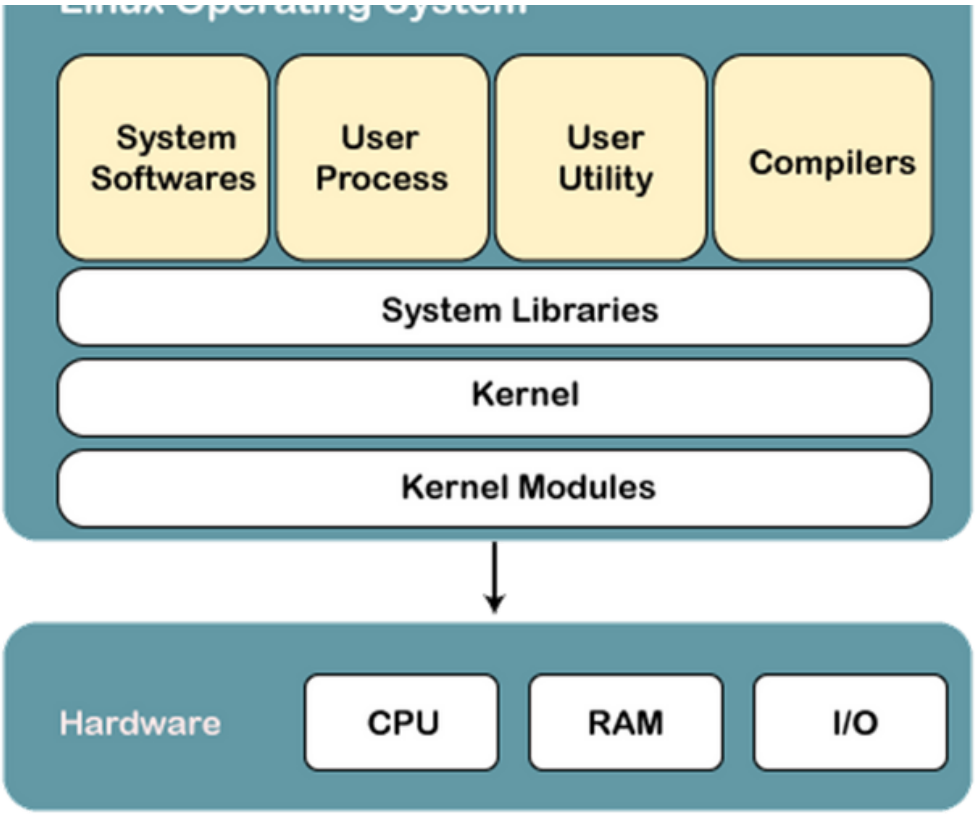
Linux is an open-source operating system like other operating systems such as Microsoft Windows, Apple Mac OS, iOS, Google android, etc. An operating system is a software that enables the communication between computer hardware and software. It conveys input to get processed by the processor and brings output to the hardware to display it. This is the basic function of an operating system. Although it performs many other important tasks, let's not talk about that.

Linux is around us since the mid-90s. It can be used from wristwatches to supercomputers. It is everywhere in our phones, laptops, PCs, cars and even in refrigerators. It is very much famous among developers and normal computer users.

Structure Of Linux Operating System

An operating system is a collection of software, each designed for a specific function.

Linux OS has following components:



Why use Linux?
So there are various features of Linux systems that make it completely different and one of the most used operating systems. Linux may be a perfect operating system if you want to get rid of viruses, malware, slowdowns, crashes, costly repairs, and many more. Further, it provides various advantages over other operating systems, and we don't have to pay for it. Let's have a look at some of its special features that will attract you to switch your operating system.

How to use Linux?
We can use Linux through an interactive user interface as well as from the terminal (Command Line Interface). Different distributions have a slightly different user interface but almost all the commands will have the same behavior for all the distributions. To run Linux from the terminal, press the "CTRL+ALT+T" keys. And, to explore its functionality, press the application button given on the left down corner of your desktop.

3.2. Virtual Machine
A virtual machine (VM) is software that runs programs or applications without being tied to a physical machine. In a VM instance, one or more guest machines can run on a host computer.
Each VM has its own operating system, and functions separately from other VMs, even if they are located on the same physical host. VMs generally run on servers, but they can also be run on desktop systems, or even
embedded platforms. Multiple VMs can share resources from a physical host, including CPU cycles, network bandwidth and memory.
How do VMs work?
In general, there are two types of VMs: Process VMs, which separate a single process, and system VMs, which offer a full separation of the operating system and applications from the physical computer. Examples of process VMs include the Java Virtual Machine, the .NET Framework and the Parrot virtual machine.
System VMs rely on hypervisors as a go-between that give software access to the hardware resources. The hypervisor emulates the computer's CPU, memory, hard disk, network and other hardware resources, creating a pool of resources that can be allocated to the individual VMs according to their specific requirements.

The hypervisor can support multiple virtual hardware platforms that are isolated from each other, enabling VMs to run Linux and Windows Server OSes on the same physical host.
Big names in the hypervisor space include VMware (ESX/ESXi), Intel/Linux Foundation (Xen), Oracle (MV Server for SPARC and Oracle VM Server for x86) and Microsoft (Hyper-V).
Desktop computer systems can also utilize virtual machines. An example here would be a Mac user running a virtual Windows instance on their physical Mac hardware.
What are the advantages of virtual machines?
Because the software is separate from the physical host computer, users can run multiple OS instances on a single piece of hardware, saving a company time, management costs and physical space. Another advantage is that VMs can support legacy apps, reducing or eliminating the need and cost of migrating an older app to an updated or different operating system.
The full form of AWS is Amazon Web Services. It is a platform that offers flexible, reliable, scalable, easy-to-use and, cost-effective cloud computing solutions.
AWS is a comprehensive, easy to use computing platform offered Amazon. The platform is developed with a combination of infrastructure as a service (IaaS), platform as a service (PaaS) and packaged software as a service (SaaS) offerings.
Important AWS Services
Amazon Web Services offers a wide range of different business purpose global cloud-based products. The products include storage, databases, analytics, networking, mobile, development tools, enterprise applications, with a pay-as-you-go pricing model.



AWS Compute Services

1. EC2(Elastic Compute Cloud)- EC2 is a virtual machine in the cloud on which you have OS level control. You can run this cloud server whenever you want.
2. LightSail- This cloud computing tool automatically deploys and manages the computer, storage, and networking capabilities required to run your applications.
3. Elastic Beanstalk- The tool offers automated deployment and provisioning of resources like a highly scalable production website.
4. EKS (Elastic Container Service for Kubernetes)- The tool allows you to Kubernetes on Amazon cloud environment without installation.
5. AWS Lambda- This AWS service allows you to run functions in the cloud. The tool is a big cost saver for you as you to pay only when your functions execute.

What is AWS S3?

Amazon S3 (Simple Storage Service) provides object storage, which is built for storing and recovering any amount of information or data from anywhere over the internet. It provides this storage through a web services interface. While designed for developers for easier web-scale computing, it provides 99.999999999 percent durability and 99.99 percent availability of objects. It can also store computer files up to 5 terabytes in size.

AWS S3 Benefits

Some of the benefits of AWS S3 are:

·Durability: S3 provides 99.999999999 percent durability.

·Low cost: S3 lets you store data in a range of “storage classes.” These classes are based on the frequency and immediacy you require in accessing files.

·Scalability: S3 charges you only for what resources you actually use, and there are no hidden fees or overage charges. You can scale your storage resources to easily meet your organization’s ever-changing demands.

·Availability: S3 offers 99.99 percent availability of objects

·Security: S3 offers an impressive range of access management tools and encryption features that provide top-notch security.

·Flexibility: S3 is ideal for a wide range of uses like data storage, data backup, software delivery, data archiving, disaster recovery, website hosting, mobile applications, IoT devices, and much more.

3.3.2 AWS CloudFormation

Managing your infrastructure with many services can be hard. Creating and managing multiple AWS resources can be challenging and time-consuming. In fact, doing those things could result in spending a whole lot of time managing your AWS resources instead of developing your applications. How can we solve this problem?

AWS CloudFormation can help. As mentioned, it provides you with a simple way to create and manage a collection of AWS resources by provisioning and updating them in an orderly and predictable way. In simple terms, it allows you to create and model your infrastructure and applications without having to perform actions manually.

AWS CloudFormation enables you to manage your complete infrastructure or AWS resources in a text file, or template. A collection of AWS resources is called a stack. AWS resources can be created or updated by using a stack.

All the resources you require in an application can be deployed easily using templates. Also, you can reuse your templates to replicate your infrastructure in multiple environments. To make templates reusable, use the parameters, mappings and conditions sections in the template so that you can customize your stacks when you create them.

·Create a new template or use an existing CloudFormation template using the JSON or YAML format.

·Save your code template locally or in an S3 bucket.

·Use AWS CloudFormation to build a stack on your template.

·AWS CloudFormation constructs and configures the stack resources that you have specified in your template.

3.3.3AWS EC2

Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) Cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.

Features of Amazon EC2

Amazon EC2 provides the following features:

·Virtual computing environments, known as instances

·Preconfigured templates for your instances, known as Amazon Machine Images (AMIs), that package the bits you need for your server (including the operating system and additional software)

·Various configurations of CPU, memory, storage, and networking capacity for your instances, known as instance types

Secure login information for your instances using key pairs (AWS stores the public key, and you store the private key in a secure place)

·Storage volumes for temporary data that's deleted when you stop, hibernate, or terminate your instance, known as instance store volumes

·Persistent storage volumes for your data using Amazon Elastic Block Store (Amazon EBS), known as Amazon EBS volumes

·Multiple physical locations for your resources, such as instances and Amazon EBS volumes, known as Regions and Availability Zones

·A firewall that enables you to specify the protocols, ports, and source IP ranges that can reach your instances using security groups

·Static IPv4 addresses for dynamic cloud computing, known as Elastic IP addresses

·Metadata, known as tags, that you can create and assign to your Amazon EC2 resources

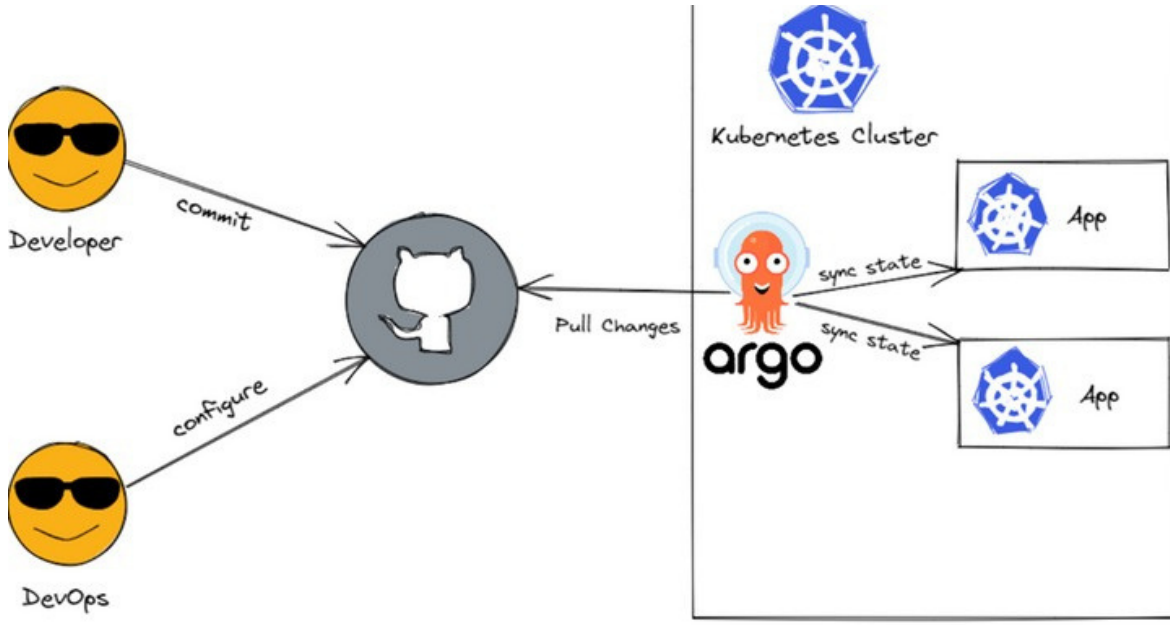
·Virtual networks you can create that are logically isolated from the rest of the AWS Cloud, and that you can optionally connect to your own network, known as virtual private clouds (VPCs)

4.CD/CT ArgoCD

Argo CD is a combination of the two terms “Argo” and “CD,” Argo being an open source container-native workflow engine for Kubernetes. It is a CNCF-hosted project that provides an easy way to combine all three modes of computing—services, workflows, and event-based—all of which are very useful for creating jobs and applications on Kubernetes. It is an engine that makes it easy to specify, schedule, and coordinate the running of complex workflows and applications on Kubernetes. The CD in the name refers to continuous delivery, which is an extension of continuous integration (CI) since it automatically deploys all code changes to a testing and/or production environment after the build stage



solves the problems above in the CD process by being a more integral part of the Kubernetes cluster. Instead of pushing changes to the Kubernetes cluster, Argo CD pulls Kubernetes manifest changes and applies them to the cluster. Once you set up Argo CD inside of your Kubernetes cluster, you configure Argo CD to connect and track your Git repo changes.
If any changes are detected, then Argo CD applies those changes automatically to the cluster. Now developers can commit code (for example, Jenkins), which will automatically build a new image, push it to the docker repo, and then finally update the Kubernetes manifest file that will be automatically pulled by Argo CD, ultimately saving manual work, reducing the initial setup configuration, and eliminating security risks. But what about DevOps teams making other changes to the application configuration? Whatever manifest files connected to the Git repo will be tracked and
synced by Argo CD and pulled into the Kubernetes cluster, providing a single flexible deployment tool for developers and DevOps.



5.Git & GitHub via Version Control

Version control allows you to keep track of your work and helps you to easily explore the changes you have made, be it data, coding scripts, notes, etc. You are probably already doing some type of version control, if you save multiple files, such as Dissertation_script_25thFeb.R, Dissertation_script_26thFeb.R, etc. This approach will leave you with tens or hundreds of similar files, making it rather cumbersome to directly compare different versions, and is not easy to share among collaborators. With version control software such as Git, version control is much smoother and easier to implement. Using an online platform like Github to store your files means that you have an online back up of your work, which is beneficial for both you and your collaborators.

Git is a specific version control system first developed by Linus Torvald for the Linux operating system. It was built for speed, simplicity, and the ability to support multiple parallel versions of projects (called branches).
Git is usually run from the command line, but a number of graphical user interfaces also exist.

GitHub

GitHub is a website for hosting Git projects.

GitHub adds useful web-based tools to Git and makes it much easier to collaborate and share your projects with others. There is also a downloadable version of GitHub that you can install on Windows and macOS.

What is GitHub?

This short (3:45) video covers the basics of GitHub.

GitHub website

The GitHub website.

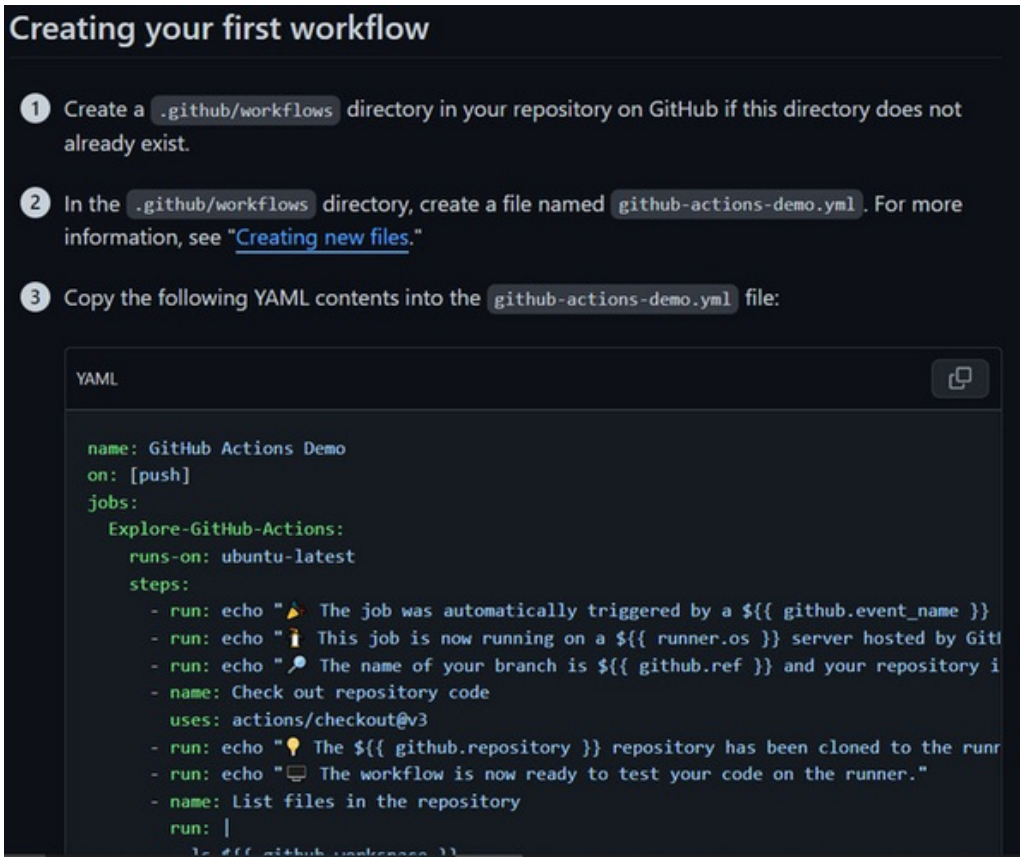
GitHub Desktop

Download the Desktop version of GitHub.

5. Code

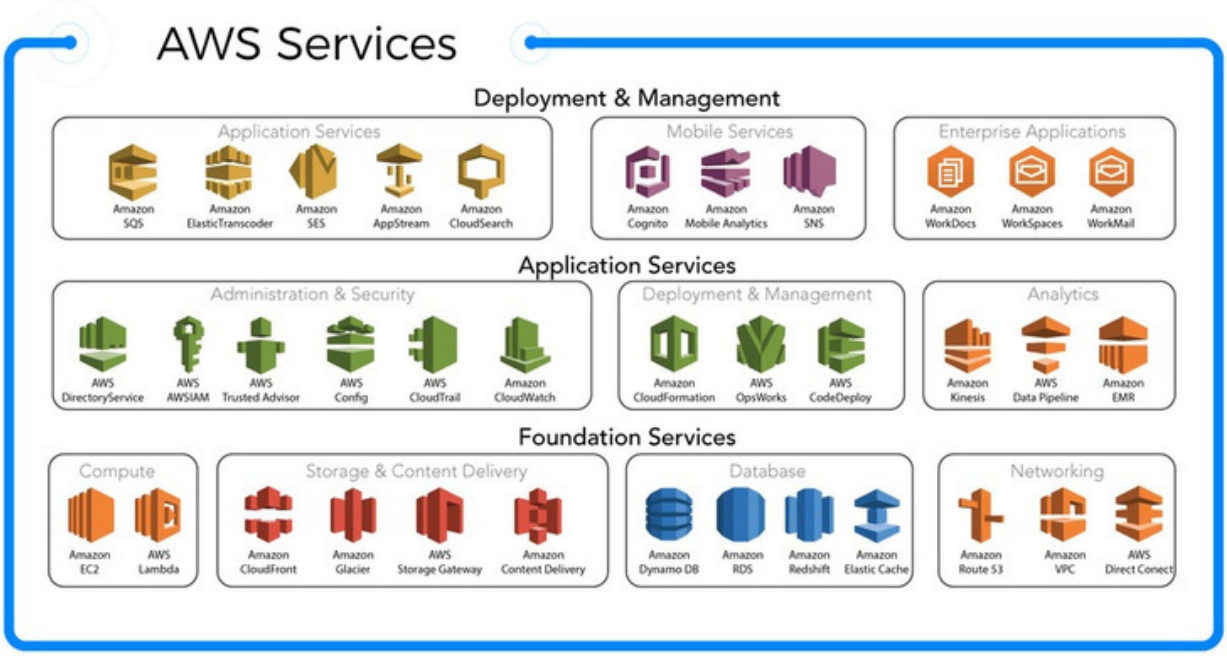


https://docs.github.com/en/actions
This will trigger some actions like check, policy check etc. before you commit to the main repo

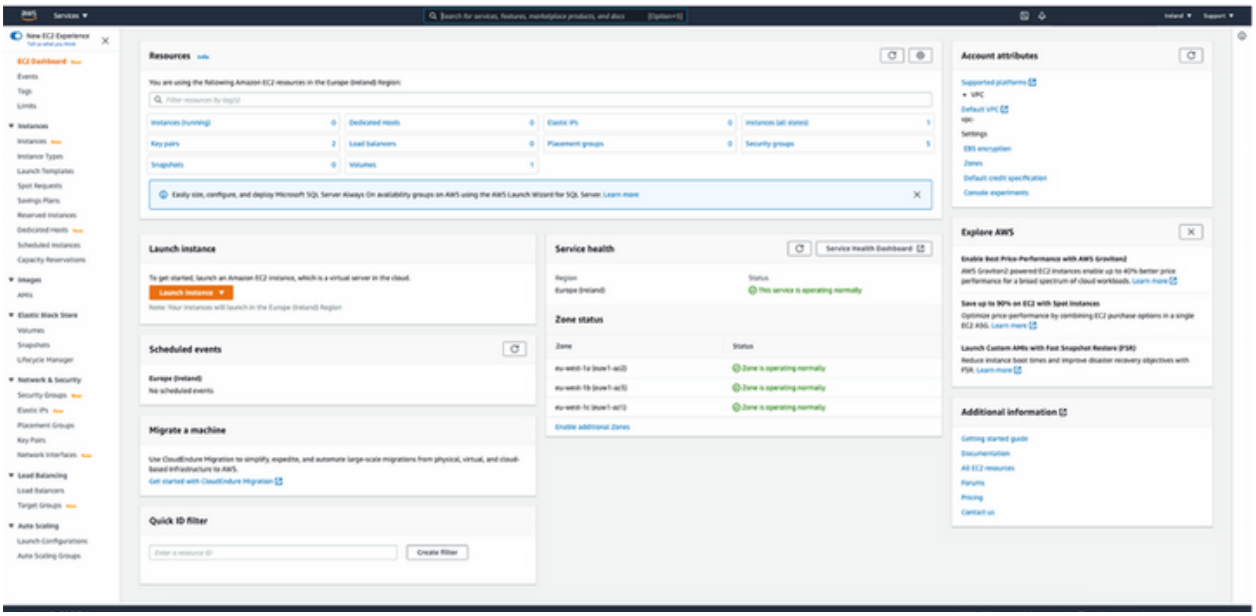


6. Screenshots

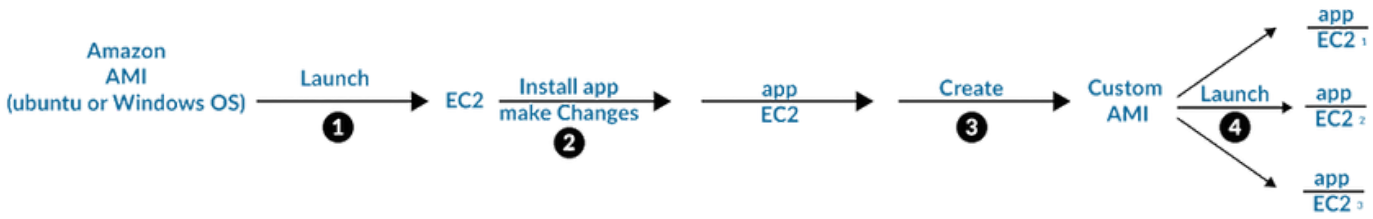
AWS Services



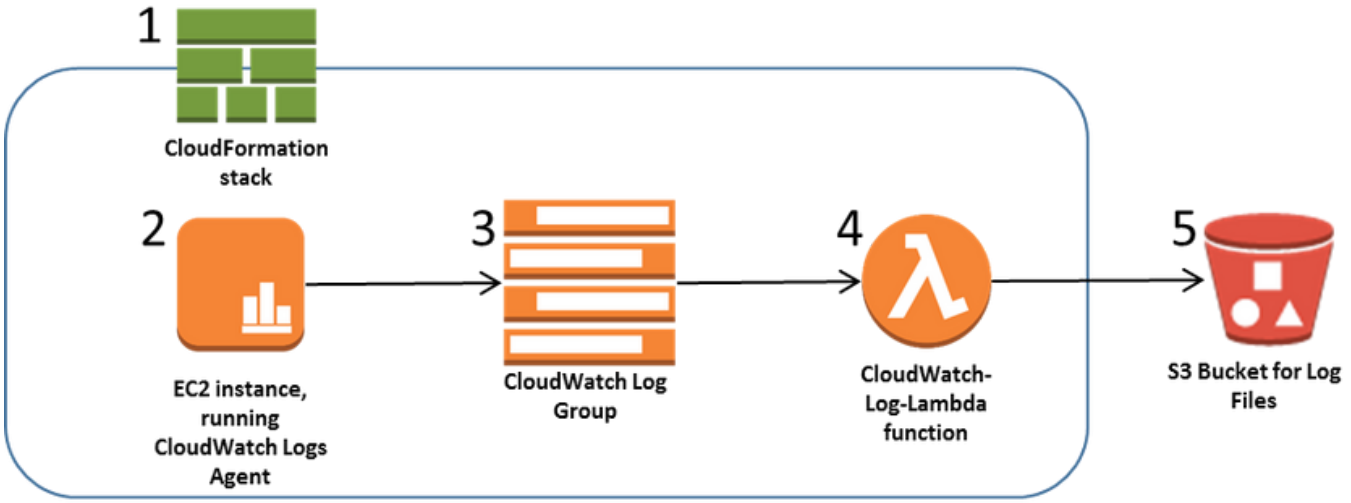
AWS Dashboard



Basic use of AWS EC2



Use Case of EC2 with AWS S3



7.Conclusion

In conclusion, the 3-month DevOps Trainee Engineer internship has been an enriching experience in terms of gaining practical knowledge in various technologies and tools. The internship covered a wide range of topics, including software requirements specifications, Linux, virtual machines, AWS, and CI/CD via ArgoCD, Git & GitHub via version control, code, and screenshots.

Throughout the internship, the trainee engineer gained an in-depth understanding of how these technologies and tools work and their practical applications in a real-world environment. By working on various projects and assignments, the trainee engineer was able to gain hands-on experience and develop their skills in problem-solving, teamwork, and communication.

Overall, the DevOps Trainee Engineer internship has been an excellent opportunity for the trainee engineer to learn and grow in their career. The knowledge and skills gained during this internship will undoubtedly be beneficial in their future endeavors, and they are now equipped to tackle any challenges that come their way.

INTERNSHIP REPORT

Areportsubmittedinpartialfulfilmentoftherequirementsfor theAwardofDegreeo

BACHELOROFTECHNOLOGYIN
COMPUTERSCIENCEENGINEERING

BY

Mr.ShubhiSen

EnrollmentNo.(0115CS191101)

UnderSupervisionof

Mr.Adarsh Gupta

ShreyiansPrivateLimited,BhopalM.P.
(Duration:15Aril,2022to15October,2022)



DEPARTMENT

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SESSION2019-2023

NRIINSTITUTEOFINFORMATIONSCIENCE&TECHNOLOGY
BHOPAL
DEPARTMENTOFCOMPUTERSCIENCEANDENGINEERING



CERTIFICATE

Thisistocertifythatthe**"Internshipreport"**submittedby**Ms.ShubhiSen(0115CS191101)**is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of therequirementsfor the award of the degree of**BACHELOR OF TECHNOLOGY in COMPUTERSCIENCEANDENGINEERING**at**ShreyiansTechnologyPrivateLimitedBhopalM.P.**

InternshipCoordinator

HODDepartmentofCSE
Prof. AnuragShrivastava
Computerscience&EngineeringNIIST,Bhopal

certificate

of internship

PRESENTED TO

SHUBHI SEN

for successfully completing Six Months Internship on

FULL STACK WEB DEVELOPMENT

with the Sheryians Pvt. Ltd. from April 2022 to Oct 2022. Internship covered knowledge of Web technologies like HTML, CSS, JS, NodeJS, MongoDB & ReactJS

SHERYIANS CODING SCHOOL

Adarsh Gupta
Co Founder - Sheryians

10-Nov-2022
Date

OWN THE CODE

ACHNOWLEDGEMENT

FirstI wouldliketothankMs.ShubhiSen,**Shreyians PrivateLimited Bhopal**forgivingmetheopportunitytodoaninternshipwithintheorganization.IalsowouldlikeallthepeopleThatworked along with , **Shreyians Private Limited Bhopal**with their patience andopennesstheycreatedanenjoyableworkingenvironment.Itisindeedwithagreatsenseofpleasure andimmensesenseofgratitudethatIacknowledgethehelpoftheseindividuals.Iamhighlyindebtedto Director**Dr.RajivArya**andPrincipal**Mr.PuranGaur**,forthefacilitiesprovidedtoaccomplishthis internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for hisconstructive criticism throughout my internship. I would like to thank **Prof. Nitesh Gupta,** internshipcoordinatorDepartmentof CSE for their supportand advices to get andcomplete internship in abovesaidorganization.

I am extremely grateful to my department staff members and friends who helped me in successfulcompletionofthisinternship.

ShubhiSen(0115CS191101)

ABSTRACT

TheCompany:

ShreyiansPrivateLimitedBhopalisanindependentsoftwaretestingandTechnicalserviceprovidercompany,drivenbyindustryexpertsandthoughtleadersinsoftwaretestingandTechnical services domain. We work with some of the technical service provider around the worldincludingsoftwareproducts.Asafocusedpartnergloballywithin-depthexpertiseintestingsolutionsweprovidefunctional,TestAutomation,ScriptlessTestAutomation,PerformanceTestingand,serving multiple industries, technical service provider. ,**ShreyiansPrivate Limited Bhopal**understandsthisgapandbridgesitwithitsbestinclasstestingandtechnicalservices.,**Shreyians Private Limited Bhopal**leverages its extensive expertise in designing and deploying testautomationsolutionswithameasurablevalue.Wefocusonoptimizinginvestmentontechnicalsupportbydeployingindustry'smostreliabletechnologysolutionsfortechnicalserviceslikeunit,functional,GUIautomation,performance,security,technicalServiceprovider.

Programmersandopportunities:

The Institute combines pioneeringresearch with top class education.Aninnovative curriculum allowsthe student flexibility in selecting courses and projects. Students, even at the undergraduate level, get toparticipate in on-going research andtechnologydevelopment -an opportunity unprecedented inIndia.Asaresult,avibrantundergraduateprogrammerco-existswithastrongpostgraduateprogrammer.

Methodology:

Thisprojectistoprovideclassifiedsinformation.Thewebsitewillprovidedifferentkindsoffacilitiesto the user like career opportunities. The user should register to utilize the site. Each user will be givenUser Id and password. Using that Id and password user can enter in to the site and can put the details.Thosewhowanttoviewtheinformationtheycanwithoutregistration.Thisprojectisimplemented using PHPasthefront-end and MySQLas back-end.

Keypartsofthereport:

The proposed system will make it easy for students to access the information they need. It will guidestudents through this process and provideaccessto verified sites that can help them.Thesystem willalso allow students to collectall the information they require andstore it in

Benefitstothecompany /institutionthroughyourreport:

The Institute combinespioneering researchwith top class education. Aninnovative curriculum allowsthe student flexibility in selectingcourses and projects. Students, even at the undergraduatelevel,gettoparticipateinon-goingresearchandtechnologydevelopment-an opportunityunprecedentedinIndia.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.
- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more
- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.
- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.
- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

1. INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand,

It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones.

This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the ones who have been through the "school of hard Knocks," taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects we saw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.
- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals withexperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.

As described by Christie [Christie 96], the specific objectives of the study are to

• Identify the technical, social, and organizational inhibitors to the adoption of processautomation:

– Assess the prevalence and scope of software process automation.

– Categorize the technologies and practices that are currently being used.

– Identify effective and ineffective technologies and practices.

– Develop guidelines for process automation implementers.

• Support vendors and researchers in developing products more in tune with end-userneeds:

– Develop guidelines for researchers and vendors to improve producteffectiveness.

– Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:



1.1 MODULES:

1. Login page
2. Registration page
3. Background verification form
4. Induction form
5. Employee form

2. ANALYSIS

2.1 Requirement Analysis

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.

Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experiencedwith process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report [Christie 96].

Three independent organizations were involved in performing the interviews reported here: The SEI, Nolan Norton and Company (a division of KPMG Peat Marwick), and Cap GeminiSogeti(located in Grenoble, France).

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercialand in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology.

Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

- A vendor of a major process-oriented configuration management (CM) product
- FourDOD sites implementing process-centered environments (PCEs)
- Two U.S. government contractors who were developing process tools and implementing PCEs
- Two French government contractors who were implementing PCEs
- A French bank that is operating with a PCE
- A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interviewsessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all, the interviews yielded 150 pages of transcripts.

In one organization, two different projects were interviewed. With two other projects, multiple interviews wereconducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of the organizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projectsranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can becharacterized as relatively immature (at or below level 2). Other projects had not been assessedformally, but many characterized themselves as having a poorly defined set of softwaredevelopment processes. Two projects were attempting software development activitiesfor the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development of the product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because of the immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas.

The findings fall into three major categories

- drivers and inhibitors
- contributors to success
- technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript, and Bootstrap.

Text Editor : Sublime Text3.

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:

Processor : Intel core i3

Memory : 8GB RAM

Hard Disk : 1TB

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions <?php and ?> that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve.

The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in a few hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

5. CODING

Frontend

```
<! DOCTYPE>

<html>

<title>Induction</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">

<link rel="stylesheet" href="https://www.w3schools.com/lib/w3-theme-blue-grey.css">

<link rel='stylesheet' href='https://fonts.googleapis.com/css?family=Open+Sans'>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

<style>

html,body,h1,h2,h3,h4,h5 {font-family: "Open Sans", sans-serif}

</style>

<body class="w3-theme-l5">

<!--Navbar -->

<div class="w3-top">

<div class="w3-bar w3-theme-d2 w3-left-align w3-large">

<a class="w3-bar-item w3-button w3-hide-medium w3-hide-large w3-right w3-padding-large
w3-hover-white w3-large w3-theme-d2" href="javascript:void(0);" onclick="openNav()"><i
class="fafa-bars"></i></a>
```

```
<a href="#" class="w3-bar-item w3-button w3-padding-large w3-theme-d4"><i class="fafa-home w3-margin-right"></i>Logo</a>

<a href="#" class="w3-bar-item w3-button w3-hide-small w3-padding-large w3-hover-white" title="News"><i class="fafa-globe"></i></a>

<a href="#" class="w3-bar-item w3-button w3-hide-small w3-padding-large w3-hover-white" title="Account Settings"><i class="fafa-user"></i></a>

<a href="#" class="w3-bar-item w3-button w3-hide-small w3-padding-large w3-hover-white" title="Messages"><i class="fafa-envelope"></i></a>

<div class="w3-dropdown-hover w3-hide-small">

<button class="w3-button w3-padding-large" title="Notifications"><i class="fafa-bell"></i><span class="w3-badge w3-right w3-small w3-green">3</span></button>

<div class="w3-dropdown-content w3-card-4 w3-bar-block" style="width:300px">

<a href="#" class="w3-bar-item w3-button">One new friend request</a>

<a href="#" class="w3-bar-item w3-button">Ram posted on your wall</a>

<a href="#" class="w3-bar-item w3-button">Ritesh likes your post</a>

</div>

</div>

<a href="#" class="w3-bar-item w3-button w3-hide-small w3-right w3-padding-large w3-hover-white" title="My Account"><imgsrc="/w3images/avatar2.png" class="w3-circle" style="height:25px;width:25px" alt="pic"></a>

</div>

</div>

<!--Navbar on small screens -->

<div id="navDemo" class="w3-bar-block w3-theme-d2 w3-hide w3-hide-large w3-hide-medium w3-large">

<a href="#" class="w3-bar-item w3-button w3-padding-large">Link 1</a>
```

```
<a href="#" class="w3-bar-item w3-button w3-padding-large">Link 2</a>

<a href="#" class="w3-bar-item w3-button w3-padding-large">Link 3</a>

<a href="#" class="w3-bar-item w3-button w3-padding-large">My Profile</a>

</div>

<!-- Page Container -->

<div class="w3-container w3-content" style="max-width:1400px;margin-top:80px">

<!-- The Grid -->

<div class="w3-row">

<!-- Left Column -->

<div class="w3-col m3">

<!-- Profile -->

<div class="w3-card-2 w3-round w3-white">

<div class="w3-container">

<h4 class="w3-center">My Profile</h4>

<p class="w3-center"><imgsrc="/w3images/avatar3.png" class="w3-circle"
style="height:106px;width:106px" alt="pic"><center><form action="upload.php"
method="post" >

<input type="submit" value="Upload Image" name="submit">

</form></form>

</center>

</p>

<hr>

<p><i class="fafa-pencil fa-fw w3-margin-right w3-text-theme"></i> Designer, UI</p>
```

```
<p><i class="fafa-home fa-fw w3-margin-right w3-text-theme"></i>Gunupur, INDIA</p>

<p><i class="fafa-birthday-cake fa-fw w3-margin-right w3-text-theme"></i> Dec 18, 1997</p></div></div><br>

<!-- Accordion -->

<!-- Alert Box -->

<div class="w3-container w3-display-container w3-round w3-theme-l4 w3-border w3-theme-border w3-margin-bottom w3-hide-small">

<span onclick="this.parentElement.style.display='none'" class="w3-button w3-theme-l3 w3-display-topright">

<i class="fafa-remove"></i>

</span>

<p><strong>Hey!</strong></p>

<p>Positions that are available with our clients which suites your profile!...</p>

</div>

<!-- End Left Column --></div>

<!-- Middle Column -->

<div class="w3-col m7">

<div class="w3-row-padding">

<div class="w3-col m12">

<div class="w3-card-2 w3-round w3-white">

<div class="w3-container w3-padding">

<h6 class="w3-opacity">How do you feel?</h6>

<p contenteditable="true" class="w3-border w3-padding">Status: Feeling Blue</p>

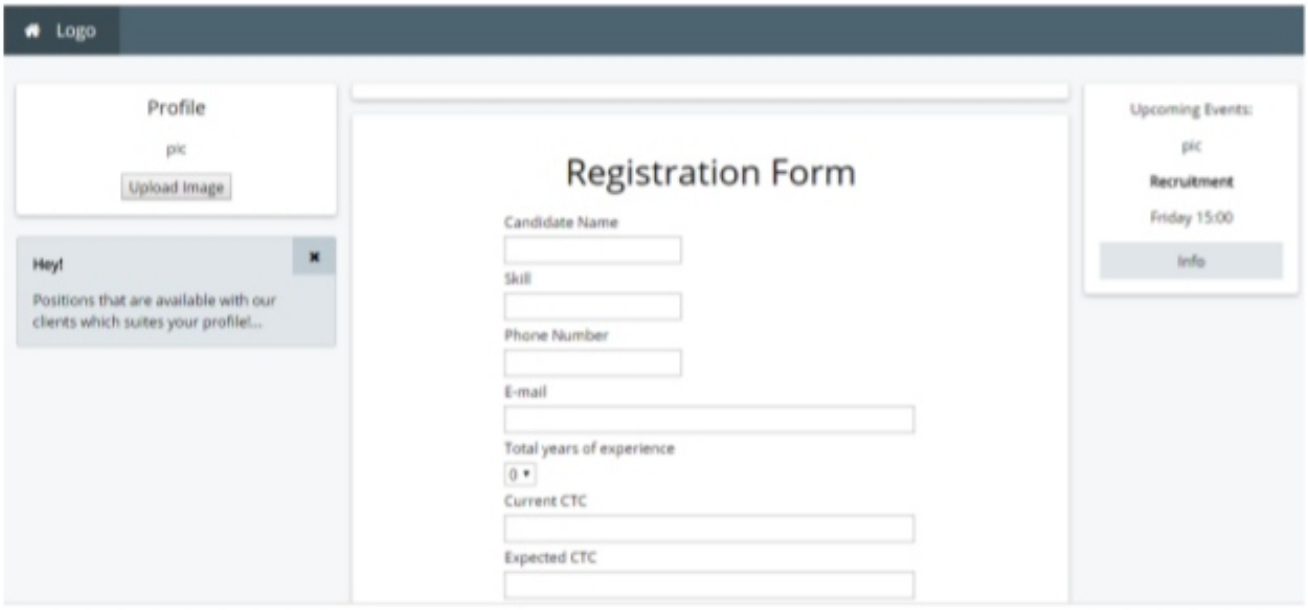
<button type="button" class="w3-button w3-theme"><i class="fafa-pencil"></i>  Post</button>
```

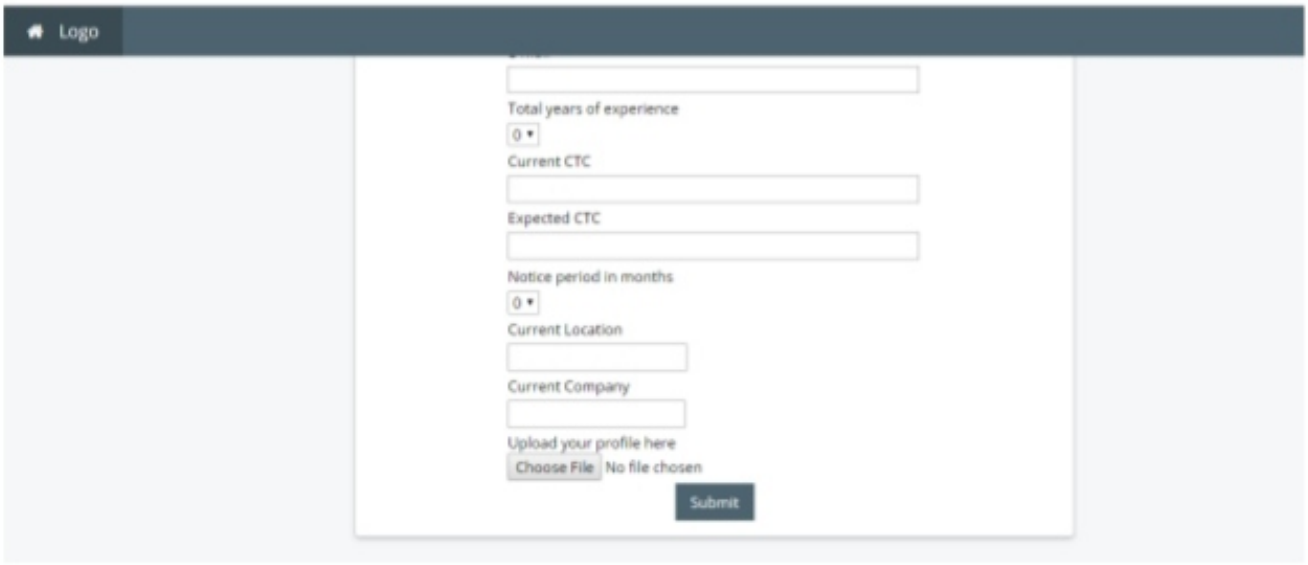
```
</div>
</div></div></div>
<div class="w3-container w3-card-2 w3-white w3-round w3-margin"><br>
<center><h1>Login Form</h1>
<form></center>
<table align="center">
<tr>
<td colspan="2" align="center"></td>
</tr>
<tr>
<td>id</td>
<td><input type="text" name="t1"></td>
</tr>
<tr>
<td>Pass</td>
<td><input type="text" name="t2"></td>
</tr>
</table>
</form>
<div class="w3-row-padding" style="margin:0 -16px">
</div>
<center><button type="button" class="w3-button w3-theme-d2 w3-margin-
bottom">Submit</button>
```

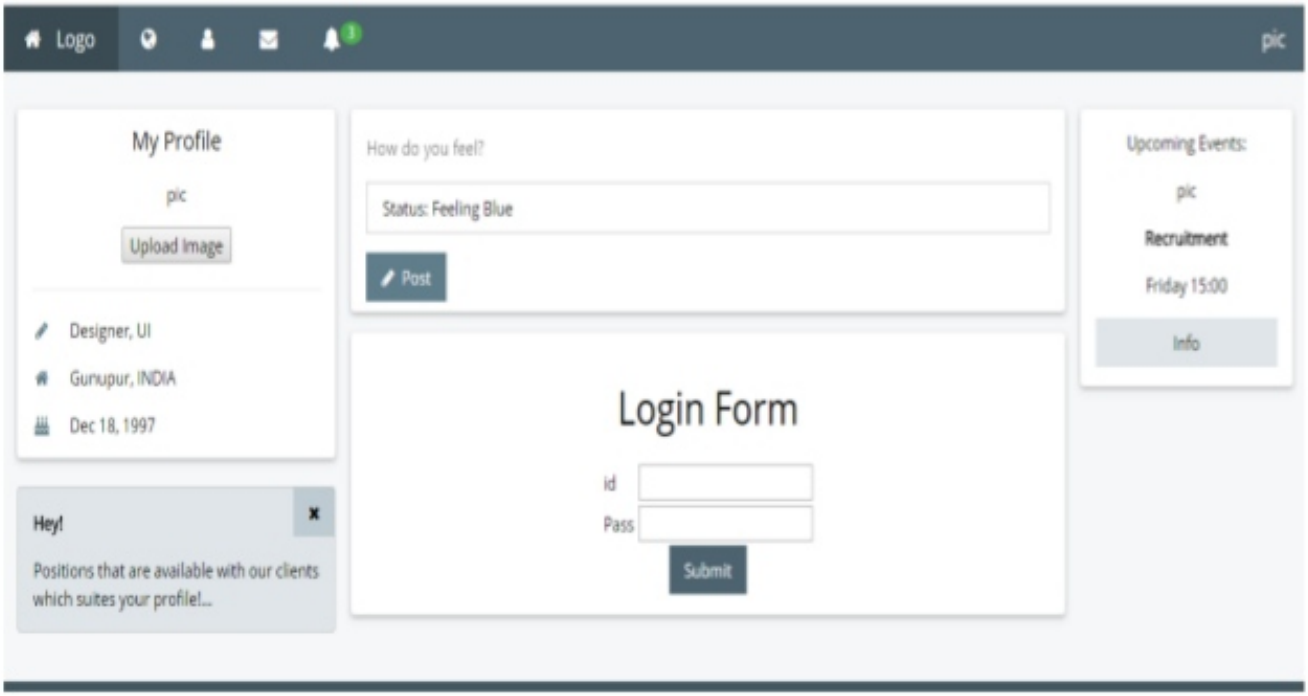
```
</div></center>
<div class="w3-row-padding" style="margin:0 -16px">
</div>
<!-- End Middle Column -->
</div>
<!-- Right Column -->
<div class="w3-col m2">
<div class="w3-card-2 w3-round w3-white w3-center">
<div class="w3-container">
<p>Upcoming Events:</p>
<imgsrc="/w3images/forest.jpg" alt="pic" style="width:100%;">
<p><strong>Recruitment</strong></p>
<p>Friday 15:00</p>
<p><button class="w3-button w3-block w3-theme-l4">Info</button></p>
</div></div>
<!-- End Right Column --></div>
<!-- End Grid --></div>
<!-- End Page Container --></div><br>
<!-- Footer -->
<footer class="w3-container w3-theme-d3 w3-padding-16"></footer>
<script>
// Accordion
functionmyFunction(id) {
```

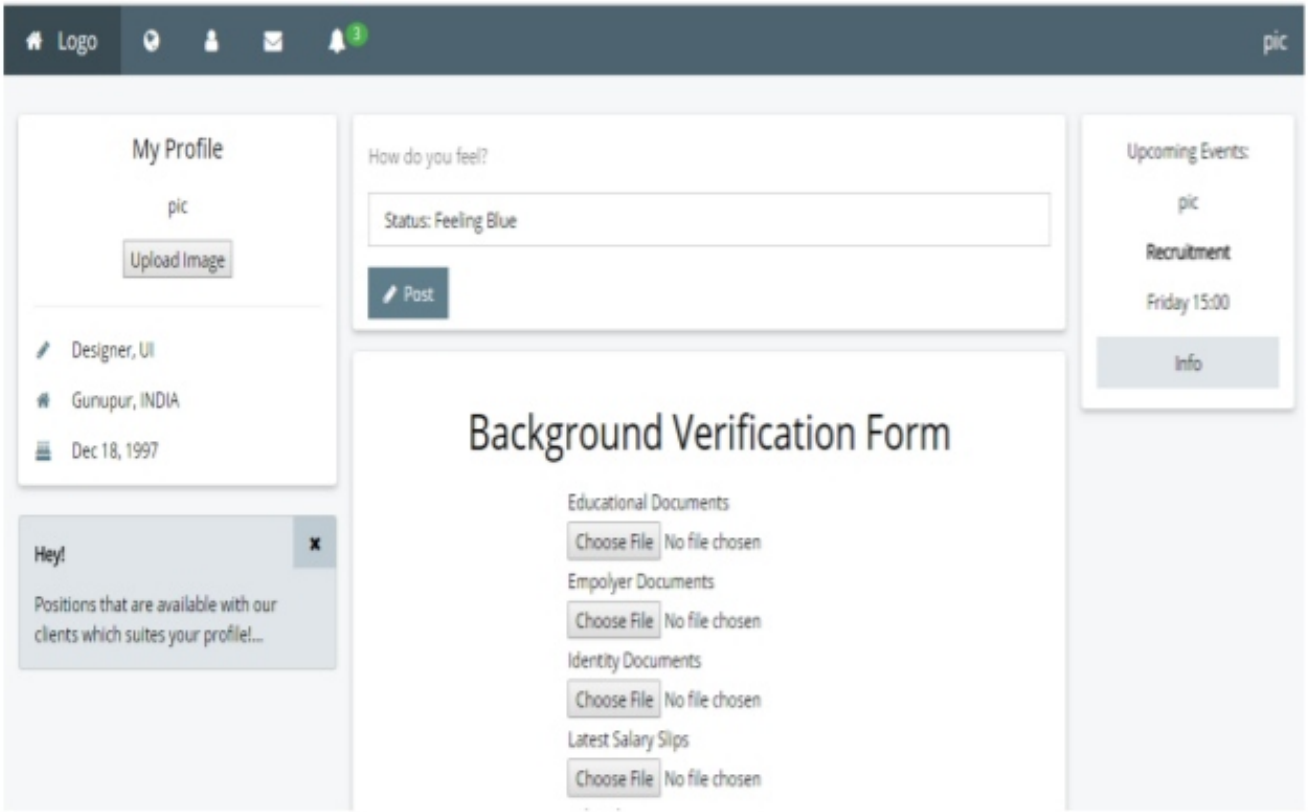
```
var x = document.getElementById(id);
if (x.className.indexOf("w3-show") == -1) {
x.className += " w3-show";
x.previousElementSibling.className += " w3-theme-d1";
    } else {
x.className = x.className.replace("w3-show", "");
x.previousElementSibling.className =
x.previousElementSibling.className.replace(" w3-theme-d1", "");
    }
}
// Used to toggle the menu on smaller screens when clicking on the menu button
functionopenNav() {
var x = document.getElementById("navDemo");
if (x.className.indexOf("w3-show") == -1) {
x.className += " w3-show";
    } else {
x.className = x.className.replace(" w3-show", "");
    }}
</script>
</body>
</html>
```

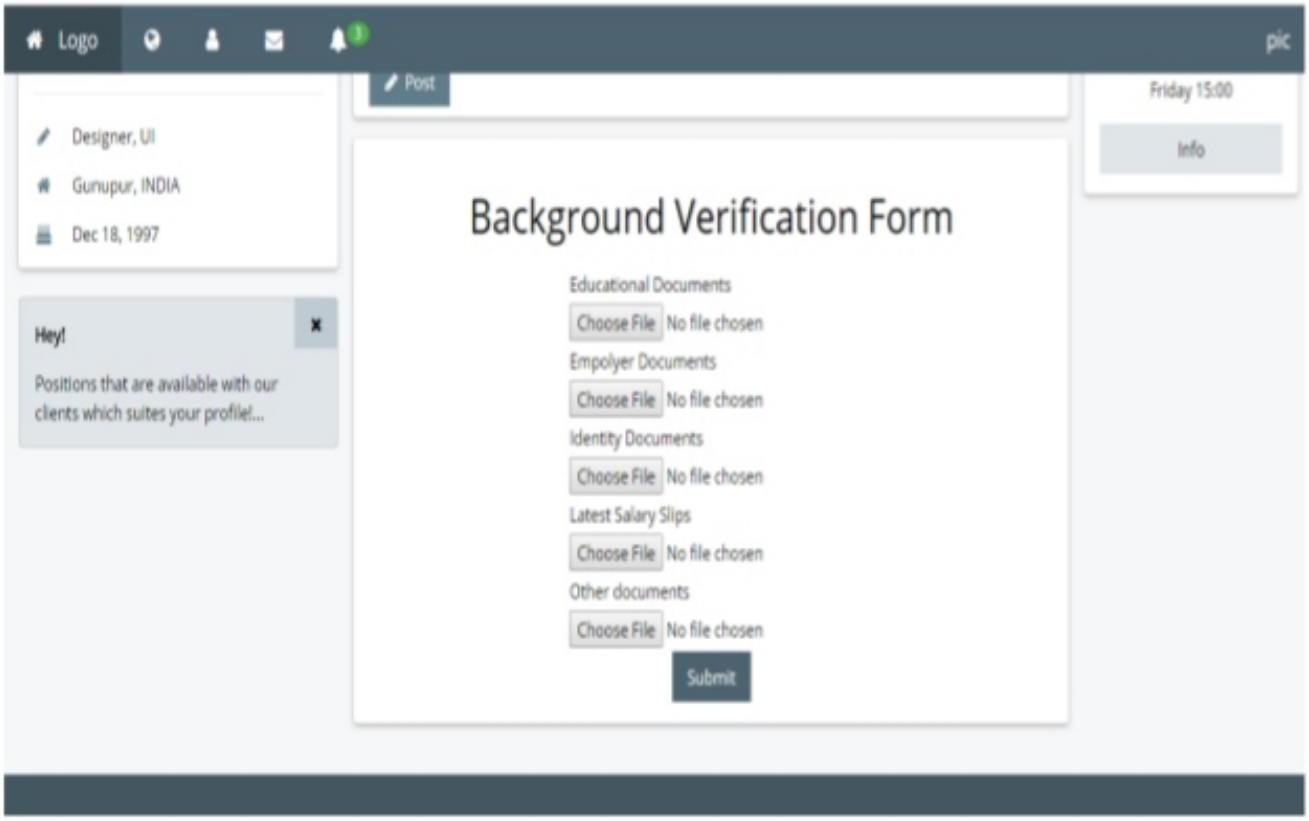
6. SCREENSHOTS






Logo
pic
My Profile
pic
Upload Image
Designer, UI
Gunupur, INDIA
Dec 18, 1997
Hey!
Positions that are available with our clients which suites your profile!...
How do you feel?
Status: Feeling Blue
Post
Login Form
id
Pass
Submit
Upcoming Events:
pic
Recruitment
Friday 15:00
Info


Logo
pic
My Profile
pic
Upload Image
Designer, UI
Gunupur, INDIA
Dec 18, 1997
Hey!
Positions that are available with our clients which suites your profile!...
How do you feel?
Status: Feeling Blue
Post
Background Verification Form
Educational Documents
Choose File No file chosen
Empolyer Documents
Choose File No file chosen
Identity Documents
Choose File No file chosen
Latest Salary Slips
Choose File No file chosen
Upcoming Events:
pic
Recruitment
Friday 15:00
Info


Logo
pic
Post
Friday 15:00
Info
Designer, UI
Gunupur, INDIA
Dec 18, 1997
Hey!
Positions that are available with our clients which suites your profile!...
Background Verification Form
Educational Documents
Choose File No file chosen
Empolyer Documents
Choose File No file chosen
Identity Documents
Choose File No file chosen
Latest Salary Slips
Choose File No file chosen
Other documents
Choose File No file chosen
Submit

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a gruelling experience for all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

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2. Vikram Vaswani, "MySQL(TM): The Complete Reference", 6th edition, Mc Graw Hill Education publications.
3. Luke Welling, "PHP and MySQL Web Development Book", 5th edition, Pearson India publications.
4. Larry Ullman, "PHP and MySQL for Dynamic Web Sites", 4th edition, Pearson India publications.

Weblinks

1. To learn about the software required to use, we used, www.wikipidea.org.
2. For more examples for learning, we referred, www.tutorialpoint.com.
3. For learning the PHP and MySQL integration, we referred, www.w3schools.com.

INTERNSHIP REPORT

A report submitted in partial fulfilment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

BY

Mr. Ajay Sah

Enrollment No. (0115CS191005)

Under Supervision of

Mrs. Divya Jain

Cybrom Technology private Limited, Bhopal M.P.

(Duration: 01 July, 2022 to 30 Jan , 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL, M.P

SESSION Jan-Jun 2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Mr. Ajay Sah (0115CS191005)**is work done by him and submitted during Jan – Jun 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Cybrom Technology Private Limited Bhopal M.P.**

Internship Coordinator

HOD Department of CSE
Prof. Anurag Shrivastava
Computer science & Engineering NIIST Bhopal

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Press Esc to exit full screen

Internship Offer Letter

Dear Ajay,

Cybrom Technology Pvt. Ltd. is pleased to offer you an Educational Internship Opportunity as an Intern. You will report directly to Ms Divya Jain. This position is located in Bhopal, MP.

You will be receiving academic credit for this position.

For this position, your major duties will include include configure, implement, and deploy systems and take care of websites. Your schedule will be approximately 7 hours per day from Monday to Friday beginning 01/07/22 to 30/01/23..

Congratulation and welcome to the team

Sincerely

Authorized Signatory

Cybrom Technology Pvt. Ltd. Bhopal

Our Training Partner

ACHNOWLEDGEMENT

First I would like to thank Mr. Ajay Sah **Cybrom Technology Private Limited Bhopal** for giving me the opportunity to do an internship with in the organization. I also would like all thepeople that worked along with, **Cybrom Technology Private Limited Bhopal** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasureand immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebtedto Director **Dr. Rajiv Arya** and Principal **Dr. Puran Gaur**, for the facilities provided to accomplishthis internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Anurag Shrivastava,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization. I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Ajay

Sah(0115CS191005)

ABSTRACT

The Company:

, **Cybrom Technology Private Limited Bhopal** is an independent software testing and Technicalservice provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focusedpartner globally with in-depth expertise in testing solutionswe provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Cybrom Technology Private Limited Bhopal** understands this gap and bridges it with its best in class testing and technical services. , **Cybrom Technology Private Limited Bhopal** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical supportby deploying industry's most reliable technology solutions for technical services like unit, functional,GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implementedusing PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the oneswho have been through the ―school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all,the interviews yielded 150 pages of transcripts. In one organization, two different projects were

interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of theorganizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development ofthe product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because ofthe immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, Bootstrap, java

JavaScript,Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i5

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general- purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure yourweb server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in afew hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

5. CODING

Login page:-

```
<p> </p>
<p> </p>
<p> </p>
<?php
session_start();
?>
<script language="javascript">
function validate()
{
    if(document.stdform.regno.value=="")
    {
        alert("Please enter Register Number");
        document.stdform.regno.focus();
        return false;
    }
    else  if(document.stdform.password.value=="")
    {
        alert("Please enter password ");
        document.stdform.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}

</script>

<script language="javascript">
function validate1()
{
    if(document.empform.loginid.value=="")
    {
        alert("Please enter Login ID");
        document.empform.loginid.focus();
        return false;
    }
    else  if(document.empform.password.value=="")
    {
        alert("Please enter password");
        document.empform.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}
```

```
</script>
<?php
include("header.php");
include("dbconnection.php");
$dt = date("Y-m-d h:i:s");
if(isset($_SESSION["empid"]))
{
    header("Location:  dashboard.php");
}
if(isset($_SESSION["regno"]))
{
    header("Location:  studentpanel.php");
}
if(isset($_POST["submit"]))
{
    $sql = "SELECT * FROM students WHERE RegNo='$_POST[regno]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg = "<br><strong><font color='green'>Student logged in
successfully..</font></strong>";
        $_SESSION['regno']=$rs['RegNo'];
        header("Location:  studentpanel.php");
    }
    else
    {
        $msg = "<br><strong><font color='red'>Failed to login</font></strong>";
    }
}

if(isset($_POST["submit1"]))
{

$sql = "SELECT * FROM employees WHERE loginid='$_POST[loginid]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
            $sqlupd = "UPDATE employees SET lastlogin='$dt' where
loginid='$_POST[loginid]'";
            mysqli_query($con,$sqlupd);

        $rs = mysqli_fetch_array($result);
        $msg1 = "<br><strong><font color='green'>Employee logged in
successfully..</font></strong>";
        echo $_SESSION['empid']=$rs['empid'];
        header("Location: dashboard.php");
    }
    else
    {
        $msg1 = "<br><strong><font color='red'>Failed to login</font></strong>";
    }
```

```
}

?>
        <div class="row space30"> <!-- row 1 begins -->

            <div class="col-md-6">
            <h2>Student Login</h2>
                <p>Please enter registration Number and password to login..<?php
                global $msg;
                echo $msg; ?></p>

                <form role="form" name="stdform" method="post" action=""
onsubmit="return validate()">
                  <div class="form-group">
                    <label for="name">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration number">
                  </div>
                  <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                  <input type="submit" name="submit" value="Sign In" class="btn btn-
default">
                </form>
            </div>

            <div class="col-md-6">
                <h2>Employee Login Panel</h2>
                <p>Please enter Login ID and password<?php
                global $msg1;
                echo $msg1; ?>.</p>

                <form name="empform" role="form" method="post" action=""
onsubmit="return validate1()">
                  <div class="form-group">
                    <label for="name">Login ID:</label>
                    <input name="loginid" type="text" class="form-control" id="loginid"
placeholder="Enter your Login ID">
                  </div>
                   <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                   <input type="submit" name="submit1" value="Sign In" class="btn btn-
default">
                </form>

           </div>

        </div> <!-- /row 1 -->
    <?php
```

```
<script language="javascript">
function validate3()
{

        if(document.form3.fname.value=="")
    {
        alert("Please enter First Name");
        document.form3.fname.focus();
        return false;
    }
    else if(document.form3.regno.value =="")
    {
        alert("Please enter Register Number");
        document.form3.regno.focus();
        return false;
    }
    else if(isNaN(document.form3.regno.value) ==true)
    {
        alert("Please enter numerical value in Registration Number");
        document.form3.regno.focus();
        return false;
    }
    else if(document.form3.newpassword.value =="")
    {
        alert("Password Should not be empty..");
        document.form3.newpassword.focus();
        return false;
    }
    else if(document.form3.newpassword.value.length < 6)
    {
        alert("Password must contain atleast 6 charecters");
        document.form3.newpassword.focus();
        return false;
    }
    else  if(document.form3.newpassword.value!=  document.form3.confirmpassword.value)
    {
        alert("Password and confirm password not matching");
        document.form3.newpassword.focus();
        return false;
    }
    else  if(document.form3.course.value=="Select")
    {
        alert("Please enter course");
        return false;
    }

    else
    {
        return true;
    }


}
</script>
```

```php
<?php
include("dbconnection.php");
if(isset($_SESSION["empid"]))
{
    header("Location:  dashboard.php");
}
if(isset($_SESSION["regno"]))
{
    header("Location: studentpanel.php");
}
if(isset($_POST["submit2"]))
{
    $sql = "SELECT * FROM students WHERE RegNo='$_POST[regno]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg = "<br><strong><h3><font color='green'>Student logged in
successfully..</font></h3></strong>";
        $_SESSION['regno']=$rs["RegNo"];
        header("Location:  studentpanel.php");
    }
    else
    {
        $msg = "<br><strong><h3><font color='red'>Failed to login</font></h3></strong>";
    }
}

if(isset($_POST["submit1"]))
{

$sql = "SELECT * FROM employees WHERE loginid='$_POST[loginid]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg1 = "<br><strong><font color='green'><h3>Employee logged in
successfully..</h3></font></strong>";
        echo  $_SESSION['empid']=$rs["empid"];
        $_SESSION['logintype']=$rs["logintype"];
        $_SESSION['lastlogin'] = $rs["lastlogin"];

        mysqli_query($con,"UPDATE employees SET lastlogin='$dttim' where
loginid='$_POST[loginid]'");

        header("Location:  dashboard.php");
    }
    else
    {
        $msg1 = "<br><strong><font color='red'><h3>Failed to
login</h3></font></strong>";
    }
```

```
}
global $setid;
if($_POST["setid"]==$_SESSION['setid'])
{
if(isset($_POST["submit"]))
{

$sqlins="INSERT into
students(FirstName,LastName,RegNo,Password,CourseId,Status)VALUES('$_POST[fname]','$_POS
T[lname]','$_POST[regno]','$_POST[newpassword]','$_POST[course]','Enabled')";
$sqlresult=mysqli_query($con,$sqlins);
if(!$sqlresult)
{
    $regresi=1;
    $regres = "<font color='red'><strong><h3>Failed to insert
records</h3></strong></font>". mysqli_error($con);
}
else
{
    $regresi=1;
    $regres = "<font color='green'><strong><h3>Registered
successfully</h3></strong></font>";
}
}
}
$_SESSION['setid']=rand();

include("header.php");
?>
        <div class="row space10"> <!-- row 1 begins -->

            <div class="col-sm-6 col-lg-4">

                <img src="images/login.jpg" alt="Image 3" class="img-responsive img-
rounded" />
              <h2>Student Login Panel</h2>
              <p><font color='blue'>Please enter registration Number and password to
login. ..</font><?php
             global $msg1;
              echo $msg1; ?></p>

              <form role="form" name="form1" method="post" action="" onsubmit="return
validate1()">
                  <div class="form-group">
                    <label for="name">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration number">
                  </div>
                <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                </div>
```

```
                <input name="submit2" type="submit" class="btn btn-default" id="submit2"
value="Sign In">
                </form>

                <a href="forgotpassword.php"> <strong>Forgot Password</strong> </a>
                  <hr />
                  <h2>Employee Login Panel</h2>
                <p><font color='blue'>Please enter Login ID and password ... </font><?php
global $msg1; echo $msg1; ?>.</p>

                <form name="form2" role="form" method="post" action="" onsubmit="return
validate2()">
                  <div class="form-group">
                    <label for="name">Login ID:</label>
                    <input name="loginid" type="text" class="form-control" id="loginid"
placeholder="Enter your Login ID">
                  </div>
                   <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                   <input type="submit" name="submit1" value="Sign In" class="btn btn-
default">
                </form>

            </div>

          <div class="col-xs-12 col-sm-6 col-lg-8">
                <h2>THE CAREER GUIDANCE & INFORMATION CELL</h2>
              <p>The college has established the career guidance and information cell in
view of helping students to get useful and systematic guidance on careers open to them
in their respective field of study.The members of the Career Guidance Committee along
with the Co-ordinator of the Cell chalk out various enrichment programmes as well as
coduct coaching classes in order to train the students to answer various competitive
examinations.An attempt is made to hod campus recruitments for the benefit of those
students who are pursuing professional and vocational courses of study. </p>

 <h2>Sign Up</h2>

        <?php
        global $regresi;
                if($regresi == 1)
                {
                echo "<p><font color='green'><h2>Registered
succesfully. ..</h2></font></p>";
                }
                else
                {
                echo "<p><font color='blue'><h2>Please enter following
details.....</h2></font></p>";
                }
        ?>
```

```
                <form name="form3" role="form" method="post" action="" onsubmit="return
validate3()">
                  <div class="form-group">
                  <input type="hidden" name="setid" value="<?php echo
$_SESSION['setid']; ?>" />

                    <label for="fname">First Name.:</label>
                    <input name="fname" type="text" class="form-control" id="fname"
placeholder="Enter First name">
                  </div>
                  <div class="form-group">
                    <label for="fname">Last name.:</label>
                    <input name="lname" type="text" class="form-control" id="lname"
placeholder="Enter Last name">
                  </div>
                  <div class="form-group">
                    <label for="fname">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration Number">
                  </div>
                  <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="newpassword" type="password" class="form-control"
id="newpassword" placeholder="New password">
                  </div>
                  <div class="form-group">
                    <label for="subject">Confirm Password:</label>
                    <input name="confirmpassword" type="password" class="form-control"
id="confirmpassword" placeholder="Confirm password">
                  </div>

                  <div class="form-group">
                    <label for="subject">Course:</label>
                    <select name="course"  class="form-control">
                    <option value="Select">Select course</option>
                    <?php
                    $sql="SELECT * FROM course WHERE status='Enabled'";
                    $resultquery = mysqli_query($con,$sql);
                    while($rsrec = mysqli_fetch_array($resultquery))
                    {
                        echo "<option value='$rsrec[CourseId]'>$rsrec[CourseName] |
Course code: $rsrec[coursecode]</option>";
                    }
                    ?>
                    </select>
                  </div>
                  <div class="checkbox">
                    <label>
                      <input name="newuser" type="checkbox" id="newuser" value="new"> I
am new user.
                    </label>
                  </div>
```

```
                <input name="submit" type="submit" class="btn btn-default" id="submit"
value="Register here" onclick="if(!this.form.newuser.checked){alert('You must Select
New user option.');return false}" >
                </form>


 </div>

        </div> <!-- /row 1 -->

        <div class="row space10"> <!-- row 2 begins -->


        </div> <!-- /row 2 -->
<?php
include("footer.php");
?>
```

Dashboard :-

```
<?php
session_start();
include("dbconnection.php");
include("header.php");
?>
        <div class="row space10"> <!-- row 1 begins -->

  <?php
  include("adminsidebar.php");
  ?>

          <div class="col-xs-12 col-sm-6 col-lg-9">
                <h2>Dashboard</h2>
                <hr />
                <div class="col-md-4">
              <h4><b>Employees</b></h4>
                <img src="images/employees.jpg" alt="Image 1" width="204"
height="120"  class="img-responsive img-rounded img_left"  />
                <h4>Employees:-
<?php
$sql = "SELECT * FROM employees where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
                </h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Companies</b></h4>
                <img src="images/companies.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Companies:-
```

```
                <?php
$sql = "SELECT * FROM companies where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
              </h4>  <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Course</b></h4>
                <img src="images/course.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Course:-
                  <?php
$sql = "SELECT * FROM course where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Jobs</b></h4>
              <img src="images/jobs-icon.jpg" alt="Image 1 "width="204" height="120"
class="img-responsive img-rounded img_left" />
              <h4>Jobs Published:-
                <?php
$sql = "SELECT * FROM jobs where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Students</b></h4>
              <img src="images/clients.png" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
              <h4>Students:-
                <?php
$sql = "SELECT * FROM students where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
        </h4>        <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Training  Program</b></h4>
                <img src="images/jde_training_services_img.jpg" alt="Image 1"
width="204" height="120" class="img-responsive img-rounded img_left" />
                <h4>Training Program:-
                  <?php
$sql = "SELECT * FROM trainingprogram where status='Enabled'";
```

```
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Selected Candidates</b></h4>
                <img src="images/selectedcandidates.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Selected Candidates:-
                  <?php
$sql = "SELECT * FROM selectedcandidate";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Current Jobs</b></h4>
                <img src="images/banner_2.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Active Jobs:-
                  <?php
                  $dt= date("Y-m-d");
$sql = "SELECT * FROM jobs where status='Enabled' AND InterviewDate >= '$dt'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Current Training Program</b></h4>
                <img src="images/currenttrainingprogram.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Active Training Programs :-
                <?php
                  $dt= date("Y-m-d");
$sql = "SELECT * FROM trainingprogram where status='Enabled' AND TPDatetime >= '$dt'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
                </h4>
                <hr />
            </div>

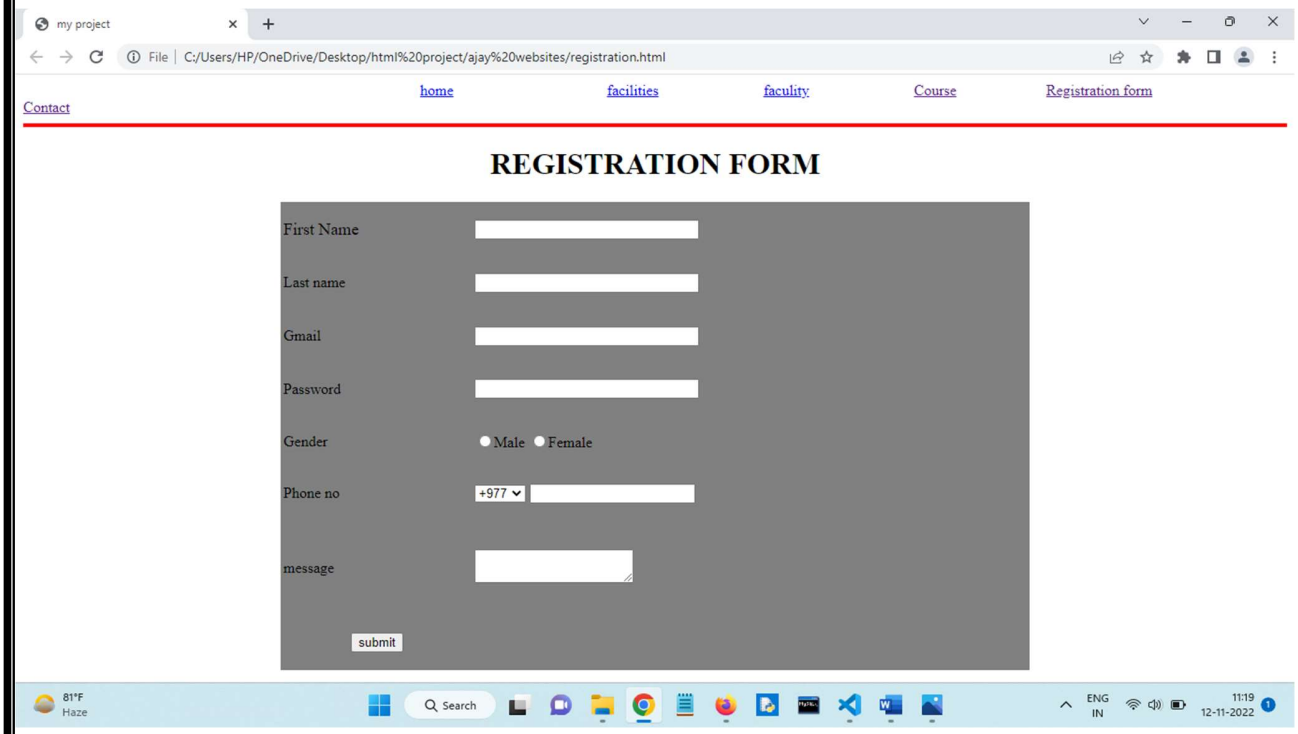
          </div>

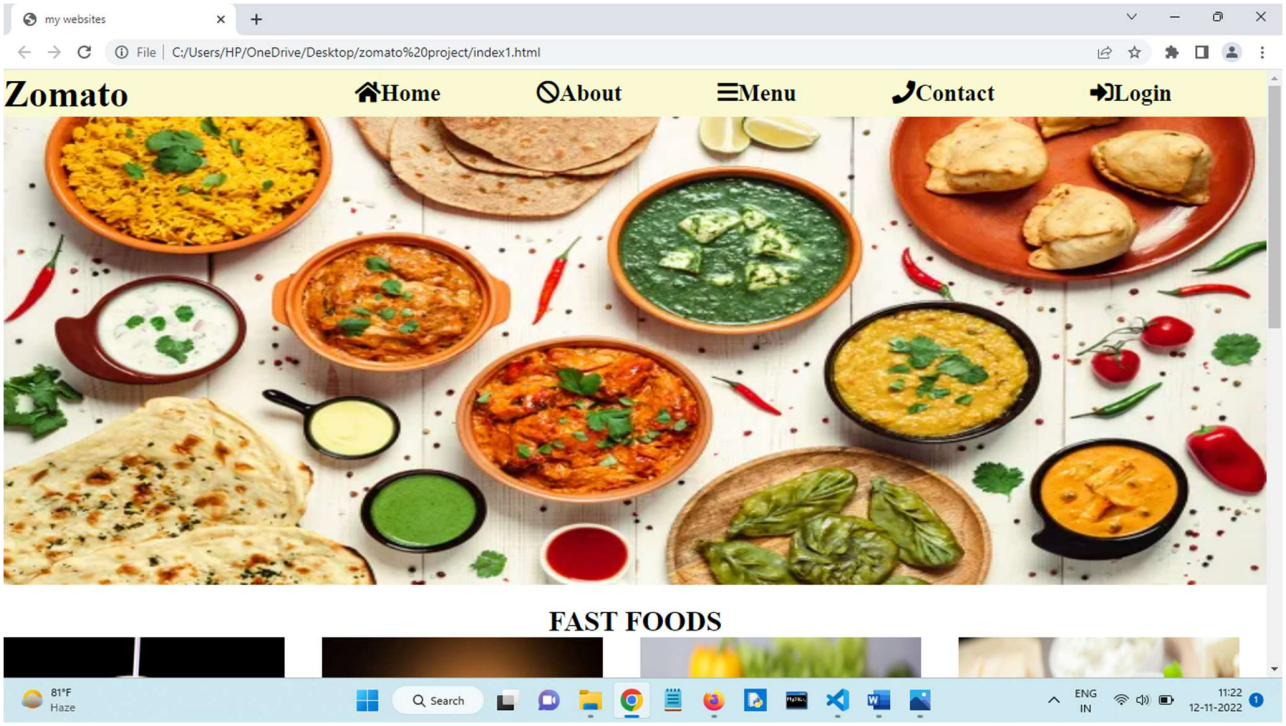

        </div> <!-- /row 1 -->

        <div class="row space10"> <!-- row 2 begins -->
```

```
        </div> <!-- /row 2 -->
<?php
include("footer.php");
?>
```

6. SCREENSHOTS




my websites
File | C:/Users/HP/OneDrive/Desktop/zomato%20project/index1.html
Zomato
Home
About
Menu
Contact
Login
FAST FOODS
81°F
Haze
Search
ENG
IN
11:22
12-11-2022

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

INTERNSHIP REPORT

A report submitted in partial fulfilment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

Submitted To

DHARMENDRA PATEL

Enrollment No. (0115CS191023)

Under Supervision of

Mr.Harsh Sharma

Sheryians Coding School, Bhopal M.P.

(Duration: Jan 2023 to Mar 2023)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL, M.P

SESSION 2019-2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Dharmendra Patel (0115CS191023)**is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Sheryians Coding School, Bhopal M.P.**

Internship Coordinator

HOD Department of CSE
Prof. Anurag Shrivastava
Computer science & Engineering NIIST,Bhopal

ACHNOWLEDGEMENT

First I would like to thank Mr. Harsh Sharma **Sheryians Coding School** for giving me the opportunity to do an internship with in the organization. I also would like all thepeople that worked along with , **Sheryains Coding School** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasureand immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebtedto Director **Dr. Rajiv Arya** and Principal **Mr. Puran Gaur**, for the facilities provided to accomplishthis internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Nitesh Gupta,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Dharmendra patel

(0115CS1910623)

ABSTRACT

The Company:

Sheryians Coding School is an independent software testing and Technicalservice provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutionswe provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Sheryians Coding School** understands this gap and bridges it with its best in class testing and technical services. , **Sheryians Coding School** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical supportby deploying industry's most reliable technology solutions for technical services like unit, functional,GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implementedusing PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

certificate

of excellence

PRESENTED TO

DHARMENDRA PATEL

for successfully completing the **training** on

BACK - END WEB DEVELOPMENT

with the **Sheryians Coding School** conducted from **Jan 05, 2023** to **Mar 15, 2023**

Training covered in depth knowledge of Node JS, Express JS & Mongo DB

SHERYIANS CODING SCHOOL

Adarsh Gupta
Co Founder - Sheryians

17-Mar-2023
Date

OWN THE CODE

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the oneswho have been through the ―school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Vs code
2. VS code File making
3. VS code Folder Making
4. Extracting File from Back-end
5. Extracting Folder From

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all,the interviews yielded 150 pages of transcripts. In one organization, two different projects were

interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of theorganizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development ofthe product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because ofthe immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: Node JS,Express,MongoDB

Text Editor : VSCode

Database : MongoDB.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : AMD Ryzen

Memory : 8GB RAM

Hard Disk : 512gb

4. TECHNOLOGY

4.1 JavaScript

JavaScript (often shortened to JS) is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well.

Javascript is used by programmers across the world to create dynamic and interactive web content like applications and browsers. JavaScript is so popular that it's the most used programming language in the world, used as a client-side programming language by 97.0% of all websites

4.2 Node JS

Node.js is an open source server environment

Node.js is free

Node.js runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)

Node.js uses JavaScript on the server

4.3 Express

Express.js is a small framework that works on top of Node.js web server functionality to simplify its APIs and add helpful new features.

It makes it easier to organize your application’s functionality with middleware and routing.

It adds helpful utilities to Node.js HTTP objects and facilitates the rendering of dynamic HTTP objects.

4.4 Mongo DB

MongoDB is an open-source document-oriented database that is designed to store a large scale of data and also allows you to work with that data very efficiently.

It is categorized under the NoSQL (Not only SQL) database because the storage and retrieval of data in the MongoDB are not in the form of tables.

5. CODING

Index.ejs:-

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sasta VS code </title>
    <link href="https://cdn.jsdelivr.net/npm/remixicon@2.2.0/fonts/remixicon.css"
rel="stylesheet">


    <link rel='stylesheet' href='/stylesheets/style.css' />
</head>
<!DOCTYPE html>
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rel="stylesheet">


    <link rel='stylesheet' href='/stylesheets/style.css' />
</head>

<body>

</body>
<div id="main">
    <div class="left">
        <h1>Sasta VS code</h1>
        <div class="nav">
            <div class="text">
                <h3>Folder Name </h3>


            </div>
            <div class="icon">
                <i id="fileicon" class="ri-file-add-line"></i>
                <i id="foldericon" class="ri-folder-add-line"></i>
                <i class="ri-restart-line"></i>
            </div>

        </div>
```

```
        <form id="filename" class="form" action="">
            <input type="text" placeholder="Filename">
        </form>
        <form id="foldername" class="form" action="">
            <input type="text" placeholder="Foldername">
        </form>
        <div class="files">
            <% files.forEach(function(elem){ %>
                <div class="file">
                    <i class="ri-file-fill"></i>
                    <%= elem %>
                        <!-- console.log(elem) -->
                </div>
                <% }) %>
                    <div class="icon"><i class="ri-folder-fill"></i>some folder</div>



        </div>


    </div>
    <div class="right">

    </div>
</div>



<script>
    function chalunband() {
        document.querySelectorAll("form").forEach(function(e) {
            e.style.display = "none"
        })
    }



    document.querySelector("#fileicon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#filename").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
        })
    })
    document.querySelector("#foldericon").addEventListener("click", function() {
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        })
    })
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```
    window.addEventListener("keydown", function(dets) {
        console.log(dets.keyCode)
        if (dets.keyCode === 27) {
            chalunband();
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        </div>
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    function chalunband() {
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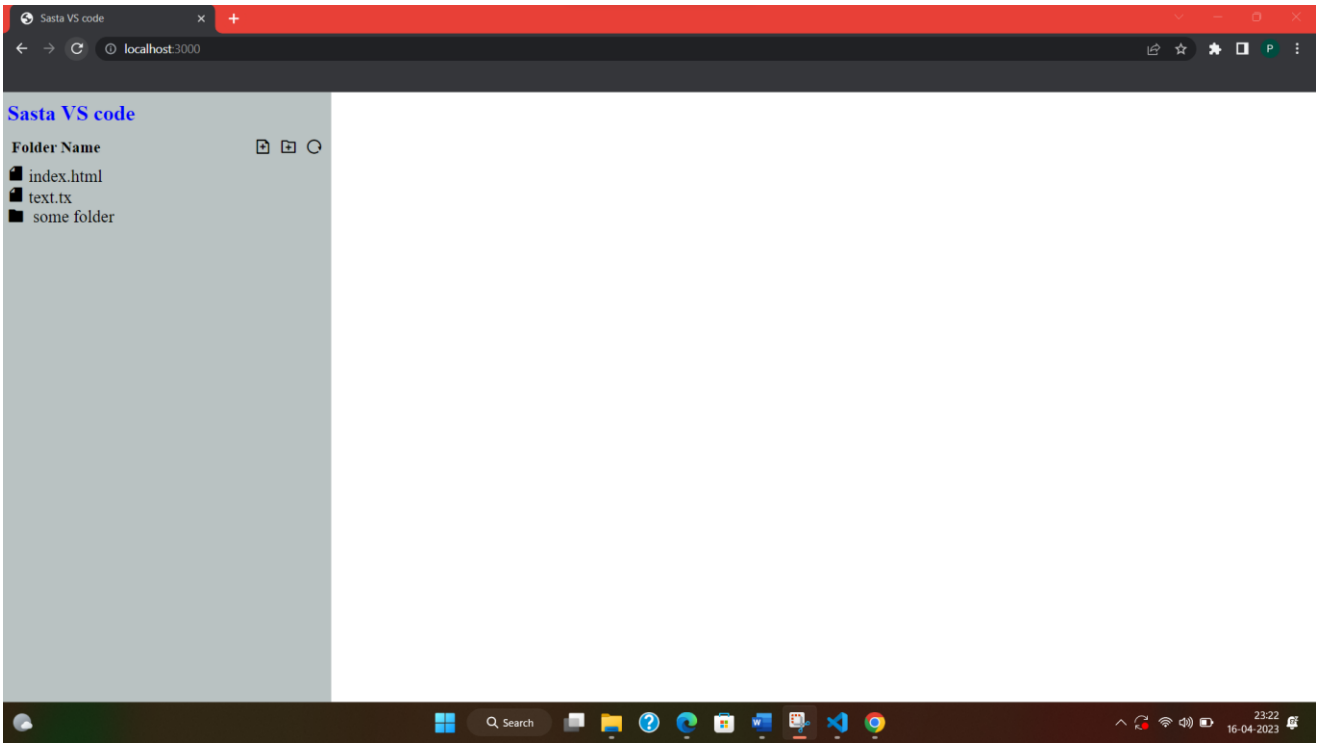
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        })
    })

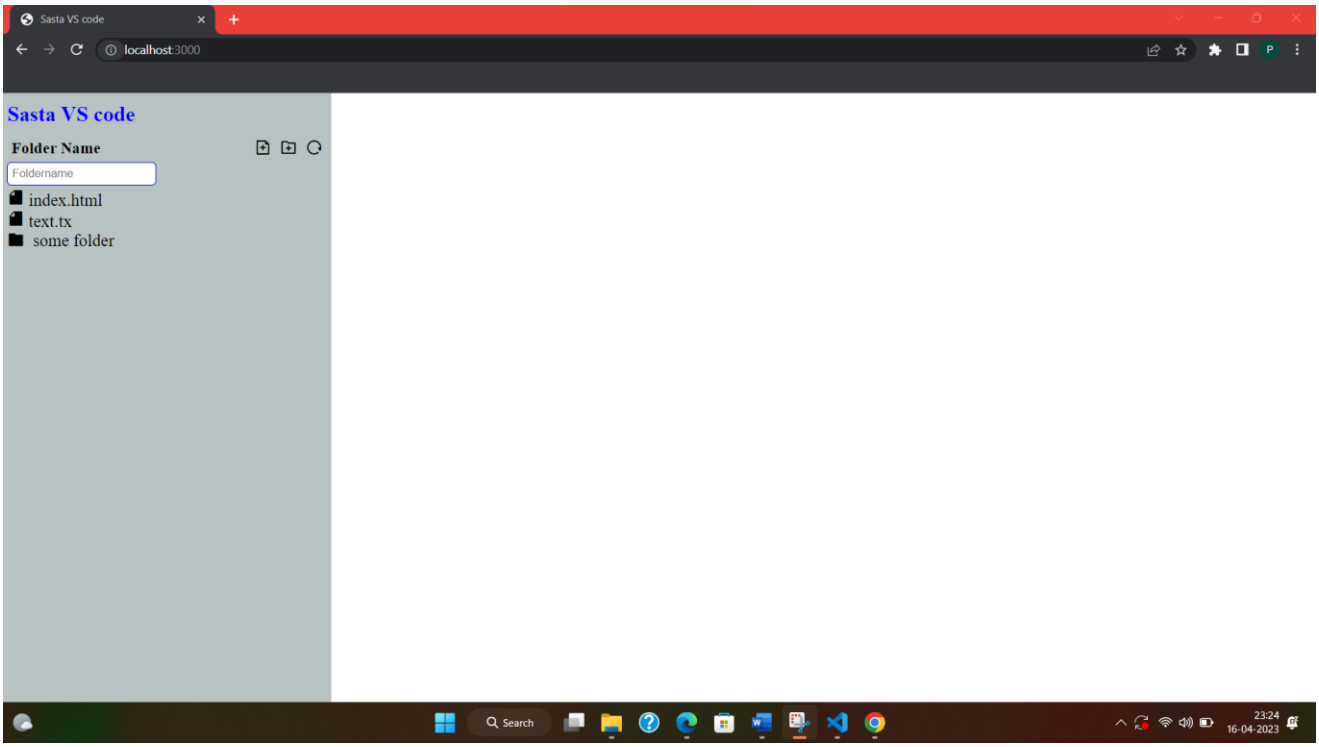

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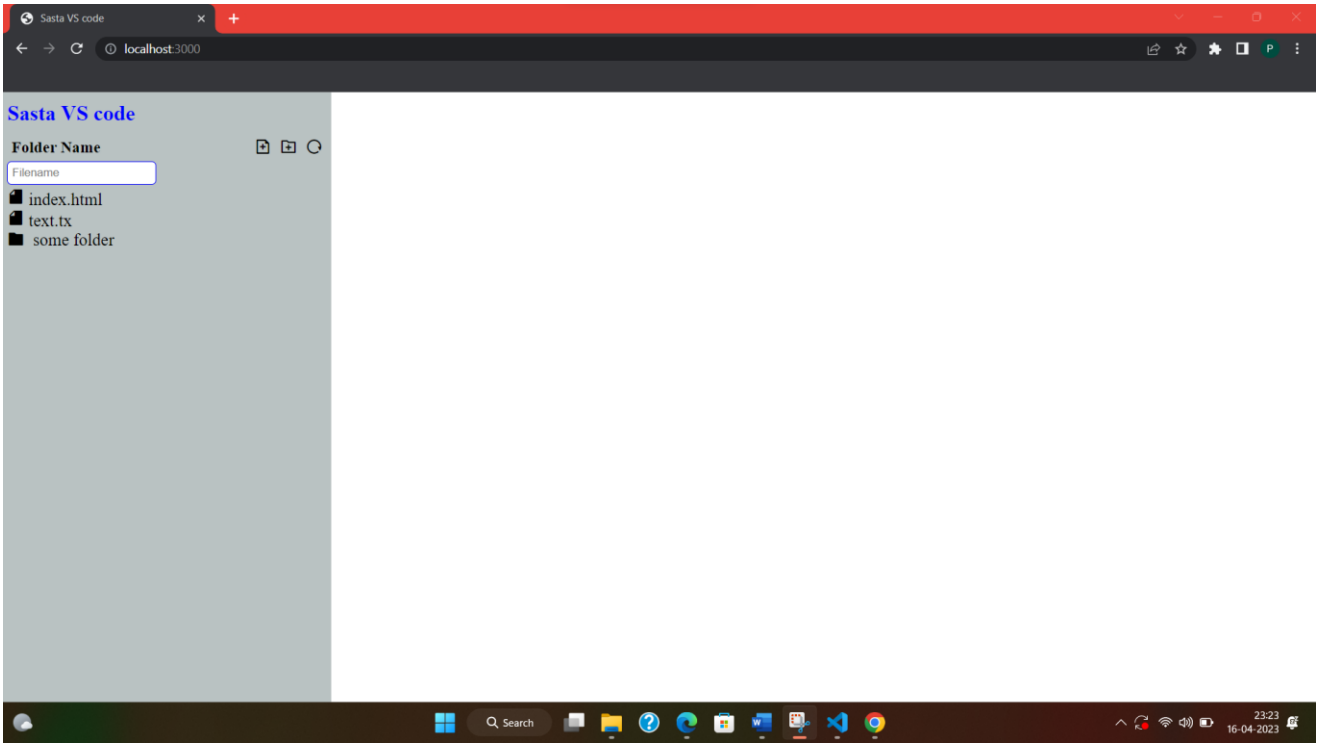
    })
</script>

</html>
```

6. SCREENSHOTS




Sasta VS code
localhost:3000
Sasta VS code
Folder Name
Foldername
index.html
text.tx
some folder
Search
23:24
16-04-2023


Sasta VS code
localhost:3000
Sasta VS code
Folder Name
Filename
index.html
text.tx
some folder
Search
23:23
16-04-2023

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

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2. Vikram Vaswani, ―MySQL(TM): The Complete Reference‖, 6th edition, Mc Graw Hill Education publications.
3. Luke Welling, ―PHP and MySQL Web Development Book‖, 5th edition, Pearson India publications.
4. Larry Ullman, ―PHP and MySQL for Dynamic Web Sites‖, 4th edition, Pearson India publications.

Weblinks

To learn about the software required to use, we used, www.wikipidea.com

2. For more examples for learning, we referred, www.tutorialpoint.com.

3. For learning the JavaScript and MySQL integration, we referred,

www.w3schools.com

INTERNSHIP REPORT

A report submitted in partial fulfilment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

Submitted To



DIVYANSH SARATHE

Enrollment No. (0115CS191026)

Under Supervision of

Mr.Harsh Sharma

Sheryians Coding School, Bhopal M.P.

(Duration: Jan 2023 to Mar 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL, M.P

SESSION 2019-2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Divyansh Sarathe (0115CS191026)**is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Sheryians Coding School, Bhopal M.P.**

Internship Coordinator

HOD Department of CSE
Prof. Anurag Shrivastava
Computer science & Engineering NIIST,Bhopal

ACHNOWLEDGEMENT

First I would like to thank Mr. Harsh Sharma **Sheryians Coding School** for giving me the opportunity to do an internship with in the organization. I also would like all thepeople that worked along with , **Sheryains Coding School** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasureand immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebtedto Director **Dr. Rajiv Arya** and Principal **Mr. Puran Gaur**, for the facilities provided to accomplishthis internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Nitesh Gupta,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Divyansh Sarathe

(0115CS191026)

ABSTRACT

The Company:

Sheryians Coding School is an independent software testing and Technicalservice provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutionswe provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Sheryians Coding School** understands this gap and bridges it with its best in class testing and technical services. , **Sheryians Coding School** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical supportby deploying industry's most reliable technology solutions for technical services like unit, functional,GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implementedusing PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

certificate

of excellence

PRESENTED TO

DIVYANSH SARATHE

for successfully completing the **training** on

BACK - END WEB DEVELOPMENT

with the **Sheryians Coding School** conducted from **Jan 05, 2023** to **Mar 15, 2023**

Training covered in depth knowledge of Node JS, Express JS & Mongo DB

SHERYIANS CODING SCHOOL

Adarsh Gupta
Co Founder - Sheryians

17-Mar-2023
Date

OWN THE CODE

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the oneswho have been through the ―school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Vs code
2. VS code File making
3. VS code Folder Making
4. Extracting File from Back-end
5. Extracting Folder From

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

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For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

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Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development ofthe product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because ofthe immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: Node JS,Express,MongoDB

Text Editor : VSCode

Database : MongoDB.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : AMD Ryzen

Memory : 8GB RAM

Hard Disk : 512gb

4. TECHNOLOGY

4.1 JavaScript

JavaScript (often shortened to JS) is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well.

Javascript is used by programmers across the world to create dynamic and interactive web content like applications and browsers. JavaScript is so popular that it's the most used programming language in the world, used as a client-side programming language by 97.0% of all websites

4.2 Node JS

Node.js is an open source server environment

Node.js is free

Node.js runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)

Node.js uses JavaScript on the server

4.3 Express

Express.js is a small framework that works on top of Node.js web server functionality to simplify its APIs and add helpful new features.

It makes it easier to organize your application’s functionality with middleware and routing.

It adds helpful utilities to Node.js HTTP objects and facilitates the rendering of dynamic HTTP objects.

4.4 Mongo DB

MongoDB is an open-source document-oriented database that is designed to store a large scale of data and also allows you to work with that data very efficiently.

It is categorized under the NoSQL (Not only SQL) database because the storage and retrieval of data in the MongoDB are not in the form of tables.

5. CODING

Index.ejs:-

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sasta VS code </title>
    <link href="https://cdn.jsdelivr.net/npm/remixicon@2.2.0/fonts/remixicon.css"
rel="stylesheet">


    <link rel='stylesheet' href='/stylesheets/style.css' />
</head>
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
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    <link href="https://cdn.jsdelivr.net/npm/remixicon@2.2.0/fonts/remixicon.css"
rel="stylesheet">


    <link rel='stylesheet' href='/stylesheets/style.css' />
</head>

<body>

</body>
<div id="main">
    <div class="left">
        <h1>Sasta VS code</h1>
        <div class="nav">
            <div class="text">
                <h3>Folder Name </h3>


            </div>
            <div class="icon">
                <i id="fileicon" class="ri-file-add-line"></i>
                <i id="foldericon" class="ri-folder-add-line"></i>
                <i class="ri-restart-line"></i>
            </div>

        </div>
```

```
        <form id="filename" class="form" action="">
            <input type="text" placeholder="Filename">
        </form>
        <form id="foldername" class="form" action="">
            <input type="text" placeholder="Foldername">
        </form>
        <div class="files">
            <% files.forEach(function(elem){ %>
                <div class="file">
                    <i class="ri-file-fill"></i>
                    <%= elem %>
                        <!-- console.log(elem) -->
                </div>
                <% }) %>
                    <div class="icon"><i class="ri-folder-fill"></i>some folder</div>



        </div>


    </div>
    <div class="right">

    </div>
</div>



<script>
    function chalunband() {
        document.querySelectorAll("form").forEach(function(e) {
            e.style.display = "none"
        })
    }



    document.querySelector("#fileicon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#filename").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
        })
    })
    document.querySelector("#foldericon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#foldername").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
        })
    })
```

```
    window.addEventListener("keydown", function(dets) {
        console.log(dets.keyCode)
        if (dets.keyCode === 27) {
            chalunband();
            document.querySelectorAll("input").forEach(function(elem) {
                elem.value = "";
            })
        }

    })
</script>

</html>

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        </div>
```

```
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    </div>
</div>



<script>
    function chalunband() {
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        })
    }



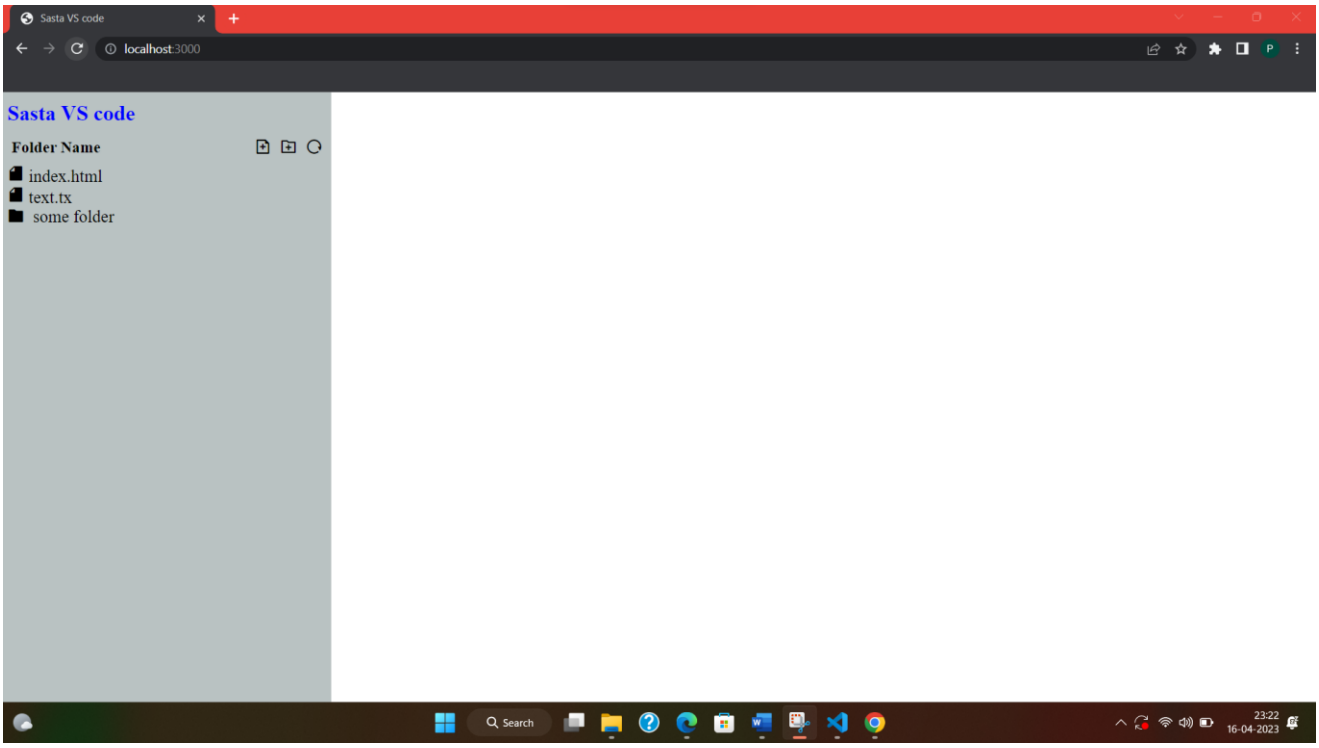
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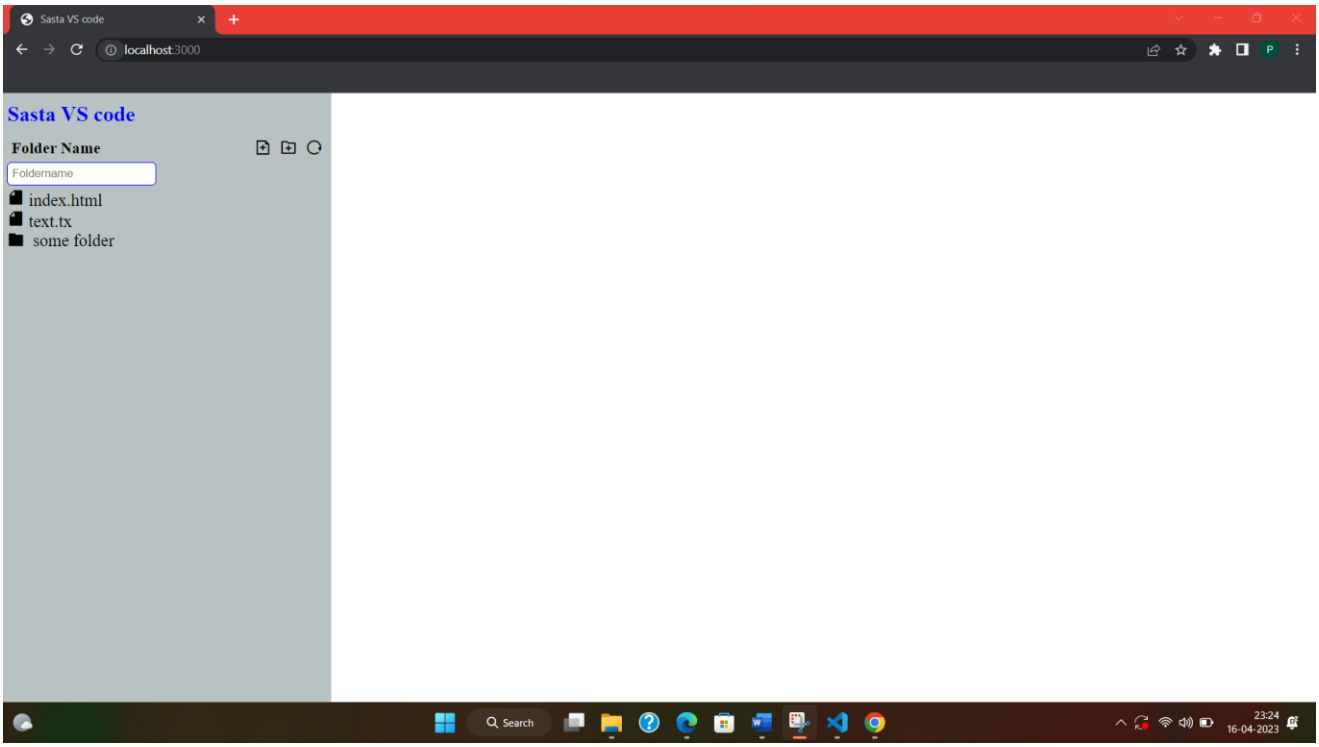

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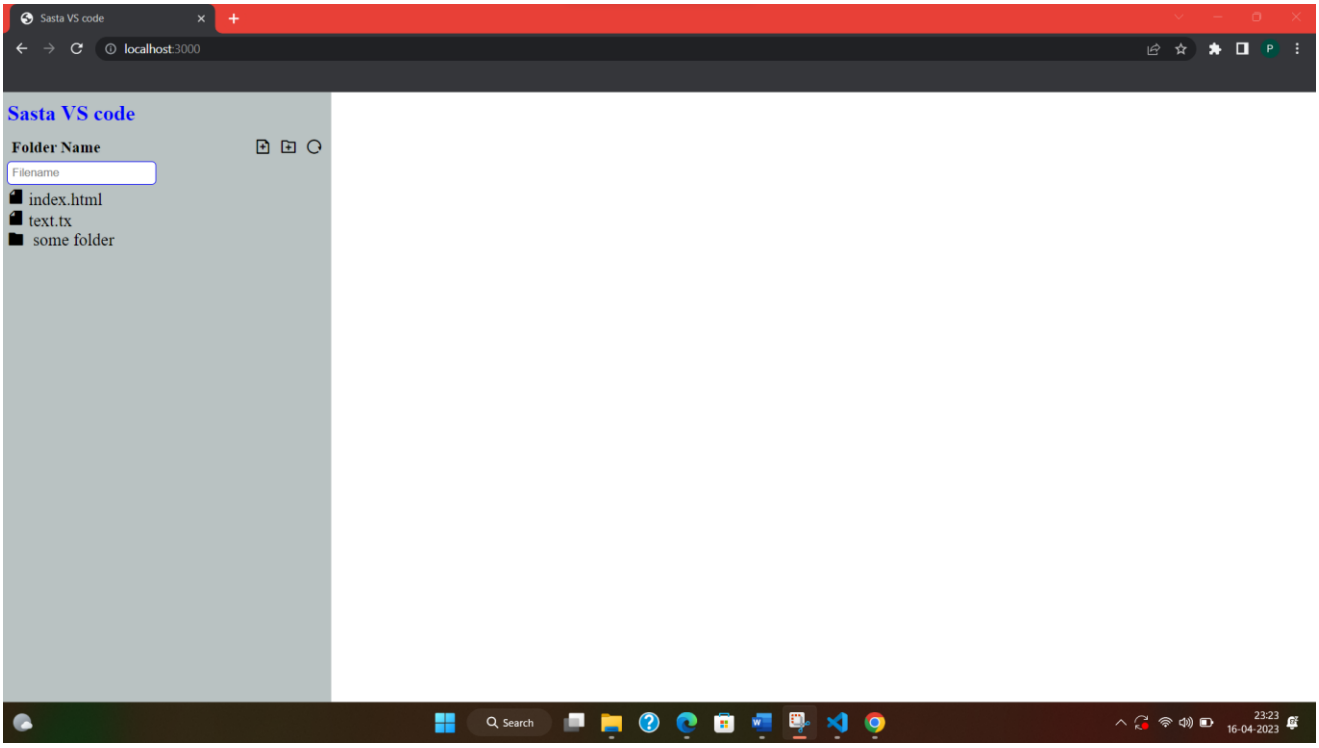
    })
</script>

</html>
```

6. SCREENSHOTS




Sasta VS code
localhost:3000
Sasta VS code
Folder Name
Foldername
index.html
text.tx
some folder
Search
23:24
16-04-2023


Sasta VS code
localhost:3000
Sasta VS code
Folder Name
Filename
index.html
text.tx
some folder
Search
23:23
16-04-2023

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

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1. Dave W. Mercer, Allan Kent, Steven Nowicki, David Mercer, ―Beginning PHP5‖, 3rd edition, Wrox publications.
2. Vikram Vaswani, ―MySQL(TM): The Complete Reference‖, 6th edition, Mc Graw Hill Education publications.
3. Luke Welling, ―PHP and MySQL Web Development Book‖, 5th edition, Pearson India publications.
4. Larry Ullman, ―PHP and MySQL for Dynamic Web Sites‖, 4th edition, Pearson India publications.

Weblinks

To learn about the software required to use, we used, www.wikipidea.com

2. For more examples for learning, we referred, www.tutorialpoint.com.

3. For learning the JavaScript and MySQL integration, we referred,

www.w3schools.com

INTERNSHIP REPORT

BACHELOR OF TECHNOLOGY
&
COMPUTER SCIENCE ENGINEERING

BY

Mr. Goutam Singh

Enrollment No. (0115CS191030)

Under Supervision of

Mr. Nick Jonas

Datacom Private Limited, New Zealand

(Duration: 02 Jan, 2023 to 02 Apr, 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL, M.P

SESSION Jan-Jun 2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Mr. Goutam Singh (0115CS191030)** is work done by him and submitted during 2022 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **DATACOM.**

Prof. Mahendra Sahare
Internship Coordinator

Prof. Anurag Shrivastava
HOD, CSE, NIIST, Bhopal

DATACOM

Forage

Inspiring and empowering future professionals

Goutam singh Mewada

Software Development Virtual Experience Program

Certificate of Completion

April 1th, 2023

Over the period of April 2023, Goutam singh Mewada has completed practical tasks in:

Create a ReactWeb App

Tom Brunskill
CEO, Co-Founder of Forage

Enrolment Verification Code SwJyWXKfaQFuSQuhF | User Verification Code xyWYfJgtW56ApyKgL | Issued by **Forage**

ACHNOWLEDGEMENT

First I would like to **thank Mr. Nick Jhonas, DATACOM** for giving me the opportunity to do an internship withi n the organization. I also would like all the people that worked along with, **DATACOM** . with their patience and openness, they created an enjoyable working environment. It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebted to Director **Dr. Rajeev Arya** for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Mahendra Sahare,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Goutam Singh

(0115CS191039)

ABSTRACT

The Company:

DATACOM is an independent software testing and Technical service provider company, driven by industry experts and thought leaders in software testing and Technical services domain.We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutions we provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider **DATACOM** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical support by deploying industry's most reliable technology solutions for technical services like unit, functional, GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implemented using PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the oneswho have been through the ―school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all,the interviews yielded 150 pages of transcripts. In one organization, two different projects were

interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of theorganizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development ofthe product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

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• drivers and inhibitors

• contributors to success

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In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews. A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

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3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript,

Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general- purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure yourweb server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in afew hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

5. CODING

Login page:-

```
<p> </p>
<p> </p>
<p> </p>
<?php
session_start();
?>
<script language="javascript">
function validate()
{
    if(document.stdform.regno.value=="")
    {
        alert("Please enter Register Number");
        document.stdform.regno.focus();
        return false;
    }
    else  if(document.stdform.password.value=="")
    {
        alert("Please enter password ");
        document.stdform.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}

</script>

<script language="javascript">
function validate1()
{
    if(document.empform.loginid.value=="")
    {
        alert("Please enter Login ID");
        document.empform.loginid.focus();
        return false;
    }
    else  if(document.empform.password.value=="")
    {
        alert("Please enter password");
        document.empform.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}
```

```
</script>
<?php
include("header.php");
include("dbconnection.php");
$dt = date("Y-m-d h:i:s");
if(isset($_SESSION["empid"]))
{
    header("Location:  dashboard.php");
}
if(isset($_SESSION["regno"]))
{
    header("Location:  studentpanel.php");
}
if(isset($_POST["submit"]))
{
    $sql = "SELECT * FROM students WHERE RegNo='$_POST[regno]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg = "<br><strong><font color='green'>Student logged in
successfully..</font></strong>";
        $_SESSION['regno']=$rs['RegNo'];
        header("Location:  studentpanel.php");
    }
    else
    {
        $msg = "<br><strong><font color='red'>Failed to login</font></strong>";
    }
}

if(isset($_POST["submit1"]))
{

$sql = "SELECT * FROM employees WHERE loginid='$_POST[loginid]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
            $sqlupd = "UPDATE employees SET lastlogin='$dt' where
loginid='$_POST[loginid]'";
            mysqli_query($con,$sqlupd);

        $rs = mysqli_fetch_array($result);
        $msg1 = "<br><strong><font color='green'>Employee logged in
successfully..</font></strong>";
        echo  $_SESSION['empid']=$rs['empid'];
        header("Location: dashboard.php");
    }
    else
    {
        $msg1 = "<br><strong><font color='red'>Failed to login</font></strong>";
    }
```

```
}

?>
        <div class="row space30"> <!-- row 1 begins -->

            <div class="col-md-6">
            <h2>Student Login</h2>
                <p>Please enter registration Number and password to login..<?php
                global $msg;
                echo $msg; ?></p>

                <form role="form" name="stdform" method="post" action=""
onsubmit="return validate()">
                  <div class="form-group">
                    <label for="name">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration number">
                  </div>
                  <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                  <input type="submit" name="submit" value="Sign In" class="btn btn-
default">
                </form>
            </div>

            <div class="col-md-6">
                <h2>Employee Login Panel</h2>
                <p>Please enter Login ID and password<?php
                global $msg1;
                echo $msg1; ?>.</p>

                <form name="empform" role="form" method="post" action=""
onsubmit="return validate1()">
                  <div class="form-group">
                    <label for="name">Login ID:</label>
                    <input name="loginid" type="text" class="form-control" id="loginid"
placeholder="Enter your Login ID">
                  </div>
                   <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                   <input type="submit" name="submit1" value="Sign In" class="btn btn-
default">
                </form>

           </div>

        </div> <!-- /row 1 -->
    <?php
```

```
    include("footer.php");
    ?>
```

```
<?php
session_start();
$dttim = date("Y-m-d h:i:s");
?>

<script language="javascript">
function validate1()
{
    if(document.form1.regno.value=="")
    {
        alert("Please enter Register Numbe");
        document.form1.regno.focus();
        return false;
    }
    else  if(document.form1.password.value=="")
    {
        alert("Please enter password ");
        document.form1.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}

</script>

<script language="javascript">
function validate2()
{
    if(document.form2.loginid.value=="")
    {
        alert("Please enter Login ID");
        document.form2.loginid.focus();
        return false;
    }
    else  if(document.form2.password.value=="")
    {
        alert("Please enter password");
        document.form2.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}
```

```
</script>


<script language="javascript">
function validate3()
{

        if(document.form3.fname.value=="")
    {
        alert("Please enter First Name");
        document.form3.fname.focus();
        return false;
    }
    else if(document.form3.regno.value =="")
    {
        alert("Please enter Register Number");
        document.form3.regno.focus();
        return false;
    }
    else if(isNaN(document.form3.regno.value) ==true)
    {
        alert("Please enter numerical value in Registration Number");
        document.form3.regno.focus();
        return false;
    }
    else if(document.form3.newpassword.value =="")
    {
        alert("Password Should not be empty..");
        document.form3.newpassword.focus();
        return false;
    }
    else if(document.form3.newpassword.value.length < 6)
    {
        alert("Password must contain atleast 6 charecters");
        document.form3.newpassword.focus();
        return false;
    }
    else   if(document.form3.newpassword.value!=   document.form3.confirmpassword.value)
    {
        alert("Password and confirm password not matching");
        document.form3.newpassword.focus();
        return false;
    }
    else   if(document.form3.course.value=="Select")
    {
        alert("Please enter course");
        return false;
    }

    else
    {
        return true;
    }
```

```
}
</script>


<?php
include("dbconnection.php");
if(isset($_SESSION["empid"]))
{
    header("Location:  dashboard.php");
}
if(isset($_SESSION["regno"]))
{
    header("Location: studentpanel.php");
}
if(isset($_POST["submit2"]))
{
    $sql = "SELECT * FROM students WHERE RegNo='$_POST[regno]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg = "<br><strong><h3><font color='green'>Student logged in
successfully..</font></h3></strong>";
        $_SESSION['regno']=$rs["RegNo"];
        header("Location:  studentpanel.php");
    }
    else
    {
        $msg = "<br><strong><h3><font color='red'>Failed to login</font></h3></strong>";
    }
}

if(isset($_POST["submit1"]))
{

$sql = "SELECT * FROM employees WHERE loginid='$_POST[loginid]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg1 = "<br><strong><font color='green'><h3>Employee logged in
successfully..</h3></font></strong>";
        echo  $_SESSION['empid']=$rs["empid"];
        $_SESSION['logintype']=$rs["logintype"];
        $_SESSION['lastlogin'] = $rs["lastlogin"];

        mysqli_query($con,"UPDATE employees SET lastlogin='$dttim' where
loginid='$_POST[loginid]'");
```

```
}
else
{
```

```
header("Location:  dashboard.php");



$msg1 = "<br><strong><font color='red'><h3>Failed to
 login</h3></font></strong>";
     }


 }
 global $setid;
 if($_POST["setid"]==$_SESSION['setid'])
 {
 if(isset($_POST["submit"]))
 {

 $sqlins="INSERT into
 students(FirstName,LastName,RegNo,Password,CourseId,Status)VALUES('$_POST[fname]','$_POS
 T[lname]','$_POST[regno]','$_POST[newpassword]','$_POST[course]','Enabled')";
 $sqlresult=mysqli_query($con,$sqlins);
 if(!$sqlresult)
 {
     $regresi=1;
     $regres = "<font color='red'><strong><h3>Failed to insert
 records</h3></strong></font>". mysqli_error($con);
 }
 else
 {
     $regresi=1;
     $regres = "<font color='green'><strong><h3>Registered
 successfully</h3></strong></font>";
 }
 }
 }
 $_SESSION['setid']=rand();

 include("header.php");
 ?>
         <div class="row space10"> <!-- row 1 begins -->

             <div class="col-sm-6 col-lg-4">

                 <img src="images/login.jpg" alt="Image 3" class="img-responsive img-
 rounded" />
               <h2>Student Login Panel</h2>
               <p><font color='blue'>Please enter registration Number and password to
 login. ..</font><?php
              global $msg1;
               echo $msg1; ?></p>

               <form role="form" name="form1" method="post" action="" onsubmit="return
 validate1()">
                   <div class="form-group">
                     <label for="name">Registration No.:</label>
                     <input name="regno" type="text" class="form-control" id="regno"
 placeholder="Enter your Registration number">
```

```
                </div>
                <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                </div>
```

```
                <input name="submit2" type="submit" class="btn btn-default" id="submit2"
value="Sign In">
                </form>

                <a href="forgotpassword.php"> <strong>Forgot Password</strong> </a>
                  <hr />
                  <h2>Employee Login Panel</h2>
                <p><font color='blue'>Please enter Login ID and password ... </font><?php
global $msg1; echo $msg1; ?>.</p>

                <form name="form2" role="form" method="post" action="" onsubmit="return
validate2()">
                  <div class="form-group">
                    <label for="name">Login ID:</label>
                    <input name="loginid" type="text" class="form-control" id="loginid"
placeholder="Enter your Login ID">
                  </div>
                   <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                   <input type="submit" name="submit1" value="Sign In" class="btn btn-
default">
                </form>

            </div>

          <div class="col-xs-12 col-sm-6 col-lg-8">
                <h2>THE CAREER GUIDANCE & INFORMATION CELL</h2>
              <p>The college has established the career guidance and information cell in
view of helping students to get useful and systematic guidance on careers open to them
in their respective field of study.The members of the Career Guidance Committee along
with the Co-ordinator of the Cell chalk out various enrichment programmes as well as
coduct coaching classes in order to train the students to answer various competitive
examinations.An attempt is made to hod campus recruitments for the benefit of those
students who are pursuing professional and vocational courses of study. </p>

 <h2>Sign Up</h2>

        <?php
        global $regresi;
                if($regresi == 1)
                {
                echo "<p><font color='green'><h2>Registered
succesfully. ..</h2></font></p>";
                }
                else
                {
                echo "<p><font color='blue'><h2>Please enter following
details.....</h2></font></p>";
                }
        ?>
```

```
                <form name="form3" role="form" method="post" action="" onsubmit="return
validate3()">
                  <div class="form-group">
                  <input type="hidden" name="setid" value="<?php echo
$_SESSION['setid']; ?>" />

                    <label for="fname">First Name.:</label>
                    <input name="fname" type="text" class="form-control" id="fname"
placeholder="Enter First name">
                  </div>
                  <div class="form-group">
                    <label for="fname">Last name.:</label>
                    <input name="lname" type="text" class="form-control" id="lname"
placeholder="Enter Last name">
                  </div>
                  <div class="form-group">
                    <label for="fname">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration Number">
                  </div>
                  <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="newpassword" type="password" class="form-control"
id="newpassword" placeholder="New password">
                  </div>
                  <div class="form-group">
                    <label for="subject">Confirm Password:</label>
                    <input name="confirmpassword" type="password" class="form-control"
id="confirmpassword" placeholder="Confirm password">
                  </div>

                  <div class="form-group">
                    <label for="subject">Course:</label>
                    <select name="course"  class="form-control">
                    <option value="Select">Select course</option>
                    <?php
                    $sql="SELECT * FROM course WHERE status='Enabled'";
                    $resultquery = mysqli_query($con,$sql);
                    while($rsrec = mysqli_fetch_array($resultquery))
                    {
                        echo "<option value='$rsrec[CourseId]'>$rsrec[CourseName] |
Course code: $rsrec[coursecode]</option>";
                    }
                    ?>
                    </select>
                  </div>
                  <div class="checkbox">
                    <label>
                      <input name="newuser" type="checkbox" id="newuser" value="new"> I
am new user.
                    </label>
                  </div>
```

```
                  <input name="submit" type="submit" class="btn btn-default" id="submit"
value="Register here" onclick="if(!this.form.newuser.checked){alert('You  must  Select
New user option.');return false}" >
                </form>


 </div>

        </div> <!-- /row 1 -->

        <div class="row space10"> <!-- row 2 begins -->


        </div> <!-- /row 2 -->
<?php
include("footer.php");
?>
```

Dashboard :-

```
<?php
session_start();
include("dbconnection.php");
include("header.php");
?>
        <div class="row space10"> <!-- row 1 begins -->

  <?php
  include("adminsidebar.php");
  ?>

          <div class="col-xs-12 col-sm-6 col-lg-9">
                <h2>Dashboard</h2>
                <hr />
                <div class="col-md-4">
              <h4><b>Employees</b></h4>
                <img src="images/employees.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Employees:-
<?php
$sql = "SELECT * FROM employees where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
                </h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Companies</b></h4>
                <img src="images/companies.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Companies:-
```

```
                <?php
$sql = "SELECT * FROM companies where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
              </h4>  <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Course</b></h4>
                <img src="images/course.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Course:-
                  <?php
$sql = "SELECT * FROM course where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Jobs</b></h4>
              <img src="images/jobs-icon.jpg" alt="Image 1 "width="204" height="120"
class="img-responsive img-rounded img_left" />
              <h4>Jobs Published:-
                <?php
$sql = "SELECT * FROM jobs where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Students</b></h4>
              <img src="images/clients.png" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
              <h4>Students:-
                <?php
$sql = "SELECT * FROM students where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
        </h4>        <hr />
            </div>

                        <div class="col-md-4">
             <h4><b>Training   Program</b></h4>
                <img src="images/jde_training_services_img.jpg" alt="Image 1"
width="204" height="120" class="img-responsive img-rounded img_left" />
                <h4>Training Program:-
                  <?php
$sql = "SELECT * FROM trainingprogram where status='Enabled'";
```

```
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Selected Candidates</b></h4>
                <img src="images/selectedcandidates.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Selected Candidates:-
                  <?php
$sql = "SELECT * FROM selectedcandidate";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Current Jobs</b></h4>
                <img src="images/banner_2.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Active Jobs:-
                  <?php
                  $dt= date("Y-m-d");
$sql = "SELECT * FROM jobs where status='Enabled' AND InterviewDate >= '$dt'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Current Training Program</b></h4>
                <img src="images/currenttrainingprogram.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Active Training Programs :-
                <?php
                  $dt= date("Y-m-d");
$sql = "SELECT * FROM trainingprogram where status='Enabled' AND TPDatetime >= '$dt'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
                </h4>
                <hr />
            </div>

          </div>


        </div> <!-- /row 1 -->

        <div class="row space10"> <!-- row 2 begins -->
```

```
        </div> <!-- /row 2 -->
<?php
include("footer.php");
?>
```

6. SCREENSHOTS






Career Guidance
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Companies
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View training program
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Training program applicants
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View Students
Add Jobs
View Jobs
Job applicants
Training program applicants
Selected candidates
View Selected candidates
Log out
Edit student profile
Course
Select
Registration No.
Password
Confirm Password
First Name
Last Name
Image
Choose File
No file chosen
DOB
dd-mm-yyyy
Address
City
State
Select
Country
India
e Mail ID
admin
Contact No.
Mobile No.
Year of Passing
Select
Status
Select
Submit

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

8. BIBLIOGRAPHY

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3. Luke Welling, ―PHP and MySQL Web Development Book‖, 5th edition, Pearson India publications.
4. Larry Ullman, ―PHP and MySQL for Dynamic Web Sites‖, 4th edition, Pearson India publications.

Weblinks

To learn about the software required to use, we used, www.wikipidea.com

2. For more examples for learning, we referred, www.tutorialpoint.com.

3. For learning the PHP and MySQL integration, we referred,

www.w3schools.com

INTERNSHIP REPORT

A report submitted in partial fulfilment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

BY

Mr. Nilesh Patle

Enrollment No. (0511CS191006)

Under Supervision of

Mr. Dheeraj Saxena

Avyaan Management Private Limited , Bhopal M.P.

CIN: U74910MP2022PTC061300

(Duration: 03 Jan, 2023 to 03 Apr, 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL, M.P

SESSION 2019-2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Mr.Nilesh Patle (0511CS191006)**is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Avyaan Management Private Limited Bhopal M.P.**

Internship Coordinator

HOD Department of CSE

Prof. Anurag Shrivastava

Computer science & Engineering NIIST,Bhopal

ACHNOWLEDGEMENT

First I would like to thank Mr.Nilesh Patle, **Avyaan Management Private Limited Bhopal** for giving me the opportunity to do an internship with in the organization. I also would like all the people that worked along with , **Avyaan Management Private Limited Bhopal** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebted to Director **Dr. Rajeev Arya**, for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Prof. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Mahendra Sahare,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

NileshPatle
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ABSTRACT

The Company:

, **Avyaan Management Private Limited Bhopal** is an independent software testing and Technical service provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutions we provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Avyaan Management Private Limited Bhopal** understands this gap and bridges it with its best in class testing and technical services. , **Avyaan Management Private Limited Bhopal** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical support by deploying industry's most reliable technology solutions for technical services like unit, functional, GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implemented using PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the ones who have been through the –school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects we saw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all, the interviews yielded 150 pages of transcripts. In one organization, two different projects were interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of the organizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development of the product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because of the immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

- drivers and inhibitors
- contributors to success
- technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews. A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript,

Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in a few hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

```html
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Genius Voice Assistant</title>
  <img height="32" width="32" src="img/admin-fill.svg" />
  <link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css" rel="stylesheet">
  <link rel="stylesheet" href="style.css">
  <link rel="stylesheet" href="bootstrap.css">
  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.1/css/all.css"
    integrity="sha384-vp86vTRFVJgpjF9jiIGPEEqYqlDwgyBgEF109VFjmqGmIY/Y4HV4d3Gp2irVfcrp" crossorigin="anonymous">

</head>



<body>
  <video class="gif" src="./WhatsApp Video 2023-04-01 at 12.10.49 PM.mp4"></video>
  <!-- <video id="video" autoplay
    style="position:absolute;left:0px;top:0px;width: 320px; height: 240px; border: 1px solid gray; display: none;">
  </video> -->
  <div class="container" id="chat-window">
    <div id="chatbox"></div>
    <div>

      <canvas id="canvas" style="position:absolute;width:0%; height: 0%; left:0px;top:0px"></canvas>

    </div>
    <div id="chat-bar-bottom">
      <p></p>
    </div>
  </div>
  <div class="input-group" style="margin-top: 3% ; margin-bottom: 2%; border-radius: 5%; width: 45%;">
    <input style="margin-left: 15%; margin-right: 0%; border-radius: 40px 0px 0px 40px;" id="InputBox" type="text"
      class="form-control" placeholder="Type Here" aria-label="Recipient's username with two button addons" name="msg"
      autofocus>
    <button style="margin-right: 0%; border-radius: 0px 0px 0px 0px;  " id="speak" class="btn btn-outline-secondary"
      type="button" onclick="micOn()"> <span class="fas fa-microphone"></span></button>
    <button id="send-button" style=" margin-right: 15%; border-radius: 0px 40px 40px 0px; "
      class="btn btn-outline-secondary" type="" onclick="sendButton()"><i class="fas fa-paper-plane"></i></button>
  </div>

  <script src="FaceDetector.js"></script>
  <script src="WebcamManager.js"></script>

  <script>



  </script>
  <!-- face detection code ends -->

  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
  <script src="//ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
  <script src="speak.js"></script>

</body>

</html>
```

```
/ face detection code starts here

// var count=0;
        var firstFaceDetected = false;
        var camStreamWidth = 640;
        var camStreamHeight = 480;

        var VIEW_WIDTH = 320;
        var VIEW_HEIGHT = 240;

        var video = document.getElementById("video");
        var canvas = document.getElementById("canvas");

        canvas.width = VIEW_WIDTH;
        canvas.height = VIEW_HEIGHT;

        var webcamParams = {
            video: {
                mandatory: {
                    maxWidth: camStreamWidth,
                    maxHeight: camStreamHeight,
                    minWidth: camStreamWidth,
                    minHeight: camStreamHeight
                }
            }
        };
        var webcamMgr = new WebCamManager(
            {
                webcamParams: webcamParams, //Set params for
web camera
                testVideoMode: false,//true:force use example
video for test false:use web camera
                videoTag: video
            }
        );

        var faceDetector = new FaceDetector(
            {
                video: webcamMgr.getVideoTag(),
```

```
                flipLeftRight: false,
                flipUpsideDown: false
            }
        );

        webcamMgr.setOnGetUserMediaCallback(function () {
            faceDetector.startDetecting();
        });



        faceDetector.setOnFaceAddedCallback(function
(addedFaces, detectedFaces) {
            setTimeout(() => {
                for (var i = 0; i < addedFaces.length; i++) {
                    console.log("[facedetector] New face
detected id=" + addedFaces[i].faceId + " index=" +
addedFaces[i].faceIndex);

                    if (!firstFaceDetected) {
                        firstFaceDetected = true; // set the
flag to true to indicate the first face is detected
                        setTimeout(() => { // wait for 10
seconds
                            let firstMessage = "aaaaaaaa";
                            computerSpeech(firstMessage);
                            activationMassege();
                        }, 3000);
                    }

                }
            }, 3000)
        });



        faceDetector.setOnFaceUpdatedCallback(function
(detectedFaces) {
```

```
            var ctx = canvas.getContext("2d");
            ctx.clearRect(0, 0, VIEW_WIDTH, VIEW_HEIGHT);

            ctx.strokeStyle = "red";
            ctx.lineWidth = 3;
            ctx.fillStyle = "red";
            ctx.font = "italic small-caps bold 20px arial";

            for (var i = 0; i < detectedFaces.length; i++) {

                var face = detectedFaces[i];

                ctx.fillText(face.faceId, face.x * VIEW_WIDTH,
face.y * VIEW_HEIGHT);
                ctx.strokeRect(face.x * VIEW_WIDTH, face.y *
VIEW_HEIGHT + 10, face.width * VIEW_WIDTH, face.height *
VIEW_HEIGHT);

            }
        });


        webcamMgr.startCamera();
// face detection code ends here



// speech recognition code starts here
```

```
opening for the various profiles and you can ask for the JD on
the reception itself.";
        }

        else if(words.match("policies")||words.match("rules")){
            speech.text = "we are following each and every rule
in which we are bounded woth the INdian Govt rules of labour
LAws tht we have registred with.";
        }

        else
if(words.match("work")||words.match("kaam")||words.match("activ
ities")||words.match("working")||words.match("type of work")){
            speech.text = "we are one of the leading service
providers for domestic and international clientsfor the domains
like AI&ML industry in which we cover data collection and data
annotation along with contact center services of multiple
clients around the nation and we also prviding th digital
marketing services to national and international clients so
overall and last bot not the least IT services like webste
devploepment and software devlopement plus virtual assitance
for the details informations you can ask speceficcaly the
details of the perticular domains";
        }

        else if(words.match("working
days")||words.match("office days")){
            speech.text = "We works all week days, and their is
a day off in week as per workers choice either sunday or either
thursday";
        }

        else
if(words.match("leaves")||words.match("holydays")||words.match(
"chutti")||words.match("absent")||words.match("closed")||words.
match("off days")){
            speech.text = "As we work all week days so if
someone wants leave he/she can mail ho HR manager or leave
```

```
qeuries, otherwise some action we be taken on the worker if
taking leave without informing HR.";
        }

        else
if(words.match("forms")||words.match("registeration
form")||words.match("apply")||words.match("application
form")||words.match("documents")||words.match("resume")||words.
match("cv")){
            speech.text = "self information form or interview
form available at reception desk";
        }

        else
if(words.match("attendance")||words.match("present")||words.mat
ch("fingerprint")||words.match("absence")){
            speech.text = "We work 10:00 AM to 7:00 PM in all
week days, While entering the office workers have to punchin in
the attendance monitoring device and vise-versa and register
your entery and outgoings at reception ";
        }

        else if(words.match("branches")||words.match("second
office")||words.match("local")||words.match("globle")){
            speech.text = " We have no branches, we have a main
offce at 2nd Floor Shree Ram Plaza ";
        }

        else if(words.match("washroom")||
words.match("restroom")||words.match("mens
washroom")||words.match("girls room")){
             speech.text = "Their are both men's and women's
rest room's are available at Avyaan office, they located at the
left side of main enterance of office";
         }

         else
if(words.match("interview")||words.match("rounds")||words.match
```

```
("hr")||words.match("first round")||words.match("second
round")||words.match("hr round")){
            speech.text = "normally there are 3 rounds 1.
screening 2. technichal round 3. final round but it can be
increadsed in exceptional cases ";
        }

        else if(words.match("processes")||words.match("office
work")||words.match("environment")||words.match("working
place")){
            speech.text = "Avyaan Mangement has a quite good
Working environment, Every worker has their own table,chaire
and desktop computer as well, and a ggod view of bhopal at
windoew";
        }

        else
if(words.match("documents")||words.match("resume")||words.match
("cv")){
            speech.text = "Resume/ CV needed while coming to
give an interview, Theirfor after all rounds of interview some
document needed to submit to HR like- Marksheet 10 standard,
Aadhar Card and two Photos. ";
        }

        else if (words.match("map")||words.match("map
location")||words.match("avyaan
location")||words.match("location")||words.match("area")||words
.match("company place"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management pvt.
ltd. location page";
        window.open("https://goo.gl/maps/z8EjmmwzW2PMy4G39",
"_blank");
        }
```

```
        else if(words.match("contact")||words.match("mobile
number")||words.match("email")||words.match("contact
information")){
            speech.text = "You can contact us via phone :- +91
0755-4940937 and via Email :- connect@avyaanmgmt.com";
        }

        else if(words.match("company")||words.match("your
company")||words.match("avyaan
management")||words.match("private limited")){
            speech.text = "In 2022, Avyaan Management started
its journey towards service industry exploring into divergent
areas where BPO, KPO, RPO is a part as well as becoming a
pioneer in the field of Future AI. Over the year, we also
expanded into different service zones including AI/ML, Digital
marketing, Chatbot. Customer support services (24*7), Technical
support services etc.";
        }

        else if(words.match("good
morning")||words.match("morning")){
            speech.text = "A very Good morning to you!";

        }
        else if(words.match("good
afternoon")||words.match("afternoon")){
           speech.text = "A very Good Afternoon to you!";
        }

        else if(words.match("good
evening")||words.match("evening")){
            speech.text = "A very Good Evening to you!";
        }

        else if(words.match("about")||words.match("about
abhiyaan")||words.match("about company")){
            // "https://" is important!
            document.innerHTML = "Opening Avyaan Management
pvt. ltd. About page";
```

```
window.open("https://www.avyaanmgmt.com/about.html", "_blank");
            }

        else if(words.match("aaaaaaaa")){
            speech.text = "hi!, wellcome to avyaan. how may i
help you?";
        }

        else if(words.match("thankyou")||words.match("thank
you")||words.match("by")||words.match("by by")){
            speech.text = "Glad to help you! ";
            console.log("hi");
            $("#chatbox").val("");
        }

        else if (words.match("open avyaan")||words.match("open
avyaan"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management Web
page";
        speech.text = "Opening Avyaan Management Web page";
        window.open("https://www.avyaanmgmt.com/", "_blank");
        }


        else if (words.match("open youtube"))
        {
        // "https://" is important!
        output.innerHTML = "Opening YouTube";
        window.open("https://www.youtube.com", "_blank");
        }

        else if (words.match("open onestate"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Onestate Coding on
YouTube";
```

```
window.open("https://www.youtube.com/channel/UCrphqZNc_r-
KsOTeTKH5hwA", "_blank");
        }

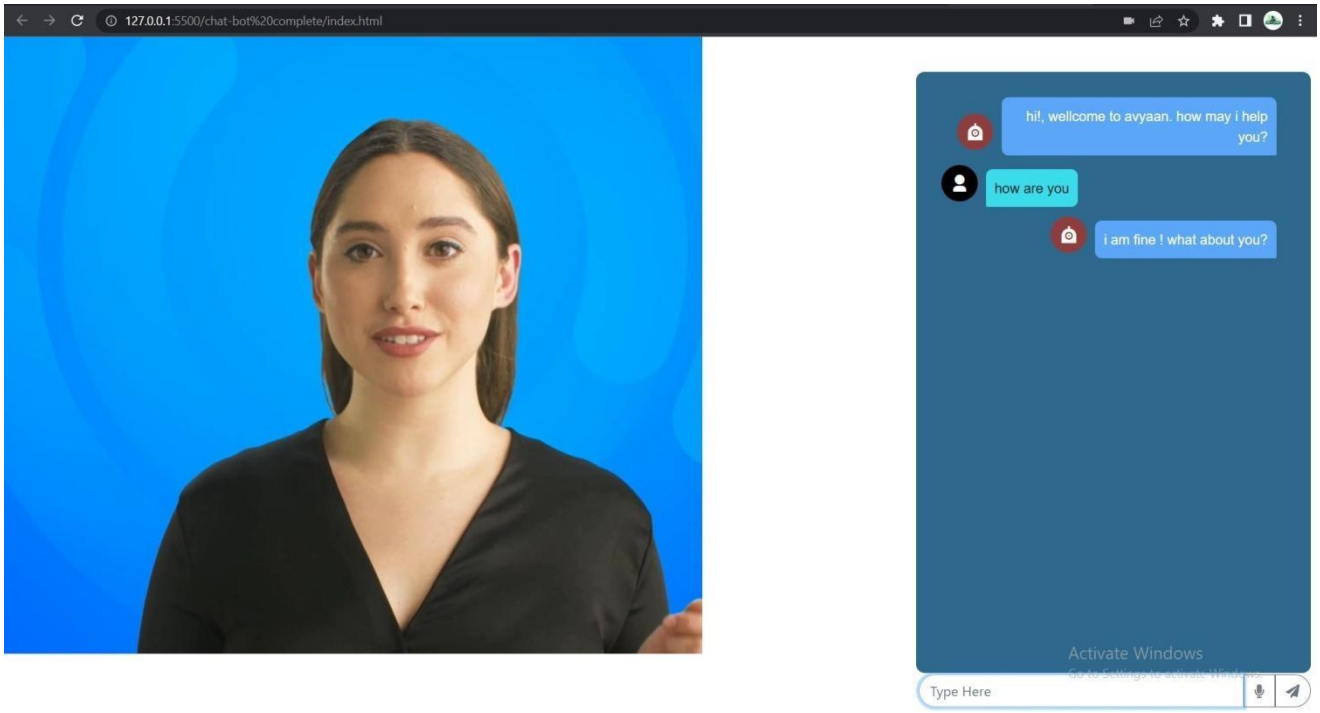
        else if (words.match("open light-lens"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Light-Lens on Github";
        window.open("https://github.com/Light-Lens", "_blank");
        }

        else{
            speech.text = "Sorry!, i didn't catch you";
        }

    };

// button.addEventListener("click",()=>{
//     recognition.start();
// });
```

5. SCREENSHOTS



6. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experience for all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

INTERNSHIP REPORT

A report submitted in partial fulfilment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

BY

Ms. Neha Mandrai

Enrollment No. (0115CS191056)

Under Supervision of

Prof.Anurag Shrivastava

Nri Institute Of Information Science And Technology Bhopal

CIN: U74910MP2022PTC061300

(Duration: 01 Jan, 2023 to 03 Apr, 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL, M.P

SESSION 2019-2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Ms. Neha Mandrai (0115CS191056)** is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Avyaan Management Private Limited Bhopal M.P.**

Internship Coordinator

Prof. Anurag Shrivastava

HOD Computer science & Engineering NIIST,Bhopal

CIN:U74910MP2022PTC061300

Date: 01-Jan-2023

Offer Letter

Mrs. Neha Mandrai
A/170 Jantaquarter,

Gautam Nagar,
Bhopal,

Sub: Internship Offer Letter

Dear Mrs. Neha Mandrai,

On behalf of Avyaan Management Pvt Ltd., we are elated to inform you that you have been selected for the position of 'Software-Engineer' internship with our company. On your acceptance of this offer letter, you will be required to join the organization from Jan 02, 2023.

I would like to inform you that the duration of this internship will be 3 months and it will be an paid internship and the stipend of internship depends on the performance of intern. During this time, your employment status with Avyaan Management Pvt Ltd.will be temporary and therefore, you will not be entitled for kind of privileges that other employees of the company are entitled to.

Your internship will end on April 2rd, 2023, and we will issue you a certificate based on your performance at the end of the internship. I would also like to highlight that the company holds complete rights to terminate your internship anytime during this period with or without any reason.

During your internship, you will get access to different kinds of confidential information about the company and by accepting this offer letter, you agree that you will take complete care in maintaining the confidentiality of all the information you come across and by any means, you will not be using it for any kind of personal benefits or reasons other than work related tasks. On completion of your internship, you will be required to handover all the official documents, laptop and other company possessions that will be given to you during your internship.

By accepting this offer letter, you agree to all the terms and conditions that have been mentioned above and you agree that you will be following all the rules and regulations at the company, and you will also be observing all the practices and policies that define the working and conduct at the company.

We look forward to having you onboard and we are hopeful that this association will be mutually beneficial to both the parties. If you have any other queries, please feel free to write at hr@avyaanmgmt.com. You will need to express your acceptance to the appointment as trainee with our company by signing the copy of this document and sharing it with us by post.

Congratulations and welcome aboard.

Thanking You

For Avyaan Management Pvt Ltd



HR Manager

Certificate of Internship Completion

A-170, Janta
Quarters,Goutam
Nagar, Bhopal,
402010

Sub: Internship Completion Letter

This is to certify that **Neha Mandrai** has successfully completed **3 Months** from of internshipwith **Avyaan Management pvt. Ltd.** from (02-Jan 2023 to 02-Apr 2023). During the course of the internship, **Neha Mandrai** demonstrated a high level of commitment, professionalism, and enthusiasm towards the assigned tasks.

Neha Mandrai was involved in many projects and showed a remarkable level of aptitude and expertise in programming languages like HTML, CSS, JAVASCRIPT and REACT JS. The internship program provided **Neha Mandrai** with a valuable opportunity to gain practical experience in It Industry and software development, and we are confident that these skills and experiences will prove beneficial in programming.

We wish **Neha Mandrai** all the best in programing and are confident that **Neha Mandrai** will continue to excel in their endeavors.

Thanking You

For Avyaan Management Pvt Ltd

HR Manager

ACHNOWLEDGEMENT

First I would like to thank Ms. **Neha Mandrai**, **Avyaan Management Private Limited Bhopal** for giving me the opportunity to do an internship with in the organization. I also would like all the people that worked along with , **Avyaan Management Private Limited Bhopal** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebted to Director **Dr. Rajeev Arya** for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Prof. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Mahendra Sahare,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Neha Mandrai

(0115CS191056)

ABSTRACT

The Company:

, **Avyaan Management Private Limited Bhopal** is an independent software testing and Technical service provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutions we provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Avyaan Management Private Limited Bhopal** understands this gap and bridges it with its best in class testing and technical services. , **Avyaan Management Private Limited Bhopal** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical support by deploying industry's most reliable technology solutions for technical services like unit, functional, GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implemented using PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the ones who have been through the –school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects we saw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all, the interviews yielded 150 pages of transcripts. In one organization, two different projects were interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of the organizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development of the product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because of the immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript,

Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in a few hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

```html
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Genius Voice Assistant</title>
  <img height="32" width="32" src="img/admin-fill.svg" />
  <link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css" rel="stylesheet">
  <link rel="stylesheet" href="style.css">
  <link rel="stylesheet" href="bootstrap.css">
  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.1/css/all.css"
    integrity="sha384-vp86vTRFVJgpjF9jiIGPEEqYqlDwgyBgEF109VFjmqGmIY/Y4HV4d3Gp2irVfcrp" crossorigin="anonymous">

</head>



<body>
  <video class="gif" src="./WhatsApp Video 2023-04-01 at 12.10.49 PM.mp4"></video>
  <!-- <video id="video" autoplay
    style="position:absolute;left:0px;top:0px;width: 320px; height: 240px; border: 1px solid gray; display: none;">
  </video> -->
  <div class="container" id="chat-window">
    <div id="chatbox"></div>
    <div>

      <canvas id="canvas" style="position:absolute;width:0%; height: 0%; left:0px;top:0px"></canvas>

    </div>
    <div id="chat-bar-bottom">
      <p></p>
    </div>
  </div>
  <div class="input-group" style="margin-top: 3% ; margin-bottom: 2%; border-radius: 5%; width: 45%;">
    <input style="margin-left: 15%; margin-right: 0%; border-radius: 40px 0px  0px 40px;" id="InputBox" type="text"
      class="form-control" placeholder="Type Here" aria-label="Recipient's username with two button addons" name="msg"
      autofocus>
    <button style="margin-right: 0%; border-radius: 0px 0px 0px 0px;  " id="speak" class="btn btn-outline-secondary"
      type="button" onclick="micOn()"> <span class="fas fa-microphone"></span></button>
    <button id="send-button" style=" margin-right: 15%; border-radius: 0px 40px 40px 0px; "
      class="btn btn-outline-secondary" type="" onclick="sendButton()"><i class="fas fa-paper-plane"></i></button>
  </div>

  <script src="FaceDetector.js"></script>
  <script src="WebcamManager.js"></script>

  <script>



  </script>
  <!-- face detection code ends -->

  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
  <script src="//ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
  <script src="speak.js"></script>

</body>

</html>
```

```
/ face detection code starts here

// var count=0;
        var firstFaceDetected = false;
        var camStreamWidth = 640;
        var camStreamHeight = 480;

        var VIEW_WIDTH = 320;
        var VIEW_HEIGHT = 240;

        var video = document.getElementById("video");
        var canvas = document.getElementById("canvas");

        canvas.width = VIEW_WIDTH;
        canvas.height = VIEW_HEIGHT;

        var webcamParams = {
            video: {
                mandatory: {
                    maxWidth: camStreamWidth,
                    maxHeight: camStreamHeight,
                    minWidth: camStreamWidth,
                    minHeight: camStreamHeight
                }
            }
        };
        var webcamMgr = new WebCamManager(
            {
                webcamParams: webcamParams, //Set params for
web camera
                testVideoMode: false,//true:force use example
video for test false:use web camera
                videoTag: video
            }
        );

        var faceDetector = new FaceDetector(
            {
                video: webcamMgr.getVideoTag(),
```

```
                flipLeftRight: false,
                flipUpsideDown: false
            }
        );

        webcamMgr.setOnGetUserMediaCallback(function () {
            faceDetector.startDetecting();
        });



        faceDetector.setOnFaceAddedCallback(function
(addedFaces, detectedFaces) {
            setTimeout(() => {
                for (var i = 0; i < addedFaces.length; i++) {
                    console.log("[facedetector] New face
detected id=" + addedFaces[i].faceId + " index=" +
addedFaces[i].faceIndex);

                    if (!firstFaceDetected) {
                        firstFaceDetected = true; // set the
flag to true to indicate the first face is detected
                        setTimeout(() => { // wait for 10
seconds
                            let firstMessage = "aaaaaaaa";
                            computerSpeech(firstMessage);
                            activationMassege();
                        }, 3000);
                    }

                }
            }, 3000)
        });



        faceDetector.setOnFaceUpdatedCallback(function
(detectedFaces) {
```

```
            var ctx = canvas.getContext("2d");
            ctx.clearRect(0, 0, VIEW_WIDTH, VIEW_HEIGHT);

            ctx.strokeStyle = "red";
            ctx.lineWidth = 3;
            ctx.fillStyle = "red";
            ctx.font = "italic small-caps bold 20px arial";

            for (var i = 0; i < detectedFaces.length; i++) {

                var face = detectedFaces[i];

                ctx.fillText(face.faceId, face.x * VIEW_WIDTH,
face.y * VIEW_HEIGHT);
                ctx.strokeRect(face.x * VIEW_WIDTH, face.y *
VIEW_HEIGHT + 10, face.width * VIEW_WIDTH, face.height *
VIEW_HEIGHT);

            }
        });


        webcamMgr.startCamera();
// face detection code ends here



// speech recognition code starts here
```

```
opening for the various profiles and you can ask for the JD on
the reception itself.";
        }

        else if(words.match("policies")||words.match("rules")){
            speech.text = "we are following each and every rule
in which we are bounded woth the INdian Govt rules of labour
LAws tht we have registred with.";
        }

        else
if(words.match("work")||words.match("kaam")||words.match("activ
ities")||words.match("working")||words.match("type of work")){
            speech.text = "we are one of the leading service
providers for domestic and international clientsfor the domains
like AI&ML industry in which we cover data collection and data
annotation along with contact center services of multiple
clients around the nation and we also prviding th digital
marketing services to national and international clients so
overall and last bot not the least IT services like webste
devploepment and software devlopement plus virtual assitance
for the details informations you can ask speceficcaly the
details of the perticular domains";
        }

        else if(words.match("working
days")||words.match("office days")){
            speech.text = "We works all week days, and their is
a day off in week as per workers choice either sunday or either
thursday";
        }

        else
if(words.match("leaves")||words.match("holydays")||words.match(
"chutti")||words.match("absent")||words.match("closed")||words.
match("off days")){
            speech.text = "As we work all week days so if
someone wants leave he/she can mail ho HR manager or leave
```

```
qeuries, otherwise some action we be taken on the worker if
taking leave without informing HR.";
        }

        else
if(words.match("forms")||words.match("registeration
form")||words.match("apply")||words.match("application
form")||words.match("documents")||words.match("resume")||words.
match("cv")){
            speech.text = "self information form or interview
form available at reception desk";
        }

        else
if(words.match("attendance")||words.match("present")||words.mat
ch("fingerprint")||words.match("absence")){
            speech.text = "We work 10:00 AM to 7:00 PM in all
week days, While entering the office workers have to punchin in
the attendance monitoring device and vise-versa and register
your entery and outgoings at reception ";
        }

        else if(words.match("branches")||words.match("second
office")||words.match("local")||words.match("globle")){
            speech.text = " We have no branches, we have a main
offce at 2nd Floor Shree Ram Plaza ";
        }

        else if(words.match("washroom")||
words.match("restroom")||words.match("mens
washroom")||words.match("girls room")){
             speech.text = "Their are both men's and women's
rest room's are available at Avyaan office, they located at the
left side of main enterance of office";
         }

         else
if(words.match("interview")||words.match("rounds")||words.match
```

```
("hr")||words.match("first round")||words.match("second
round")||words.match("hr round")){
            speech.text = "normally there are 3 rounds 1.
screening 2. technichal round 3. final round but it can be
increadsed in exceptional cases ";
        }

        else if(words.match("processes")||words.match("office
work")||words.match("environment")||words.match("working
place")){
            speech.text = "Avyaan Mangement has a quite good
Working environment, Every worker has their own table,chaire
and desktop computer as well, and a ggod view of bhopal at
windoew";
        }

        else
if(words.match("documents")||words.match("resume")||words.match
("cv")){
            speech.text = "Resume/ CV needed while coming to
give an interview, Theirfor after all rounds of interview some
document needed to submit to HR like- Marksheet 10 standard,
Aadhar Card and two Photos. ";
        }

        else if (words.match("map")||words.match("map
location")||words.match("avyaan
location")||words.match("location")||words.match("area")||words
.match("company place"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management pvt.
ltd. location page";
        window.open("https://goo.gl/maps/z8EjmmwzW2PMy4G39",
"_blank");
        }
```

```
        else if(words.match("contact")||words.match("mobile
number")||words.match("email")||words.match("contact
information")){
            speech.text = "You can contact us via phone :-  +91
0755-4940937 and via Email :- connect@avyaanmgmt.com";
        }

        else if(words.match("company")||words.match("your
company")||words.match("avyaan
management")||words.match("private limited")){
            speech.text = "In 2022, Avyaan Management started
its journey towards service industry exploring into divergent
areas where BPO, KPO, RPO is a part as well as becoming a
pioneer in the field of Future AI. Over the year, we also
expanded into different service zones including AI/ML, Digital
marketing, Chatbot. Customer support services (24*7), Technical
support services etc.";
        }

        else if(words.match("good
morning")||words.match("morning")){
            speech.text = "A very Good morning to you!";

        }
        else if(words.match("good
afternoon")||words.match("afternoon")){
           speech.text = "A very Good Afternoon to you!";
        }

        else if(words.match("good
evening")||words.match("evening")){
            speech.text = "A very Good Evening to you!";
        }

        else if(words.match("about")||words.match("about
abhiyaan")||words.match("about company")){
            // "https://" is important!
            document.innerHTML = "Opening Avyaan Management
pvt. ltd. About page";
```

```
window.open("https://www.avyaanmgmt.com/about.html", "_blank");
            }

        else if(words.match("aaaaaaaa")){
            speech.text = "hi!, wellcome to avyaan. how may i
help you?";
        }

        else if(words.match("thankyou")||words.match("thank
you")||words.match("by")||words.match("by by")){
            speech.text = "Glad to help you! ";
            console.log("hi");
            $("#chatbox").val("");
        }

        else if (words.match("open avyaan")||words.match("open
avyaan"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management Web
page";
        speech.text = "Opening Avyaan Management Web page";
        window.open("https://www.avyaanmgmt.com/", "_blank");
        }


        else if (words.match("open youtube"))
        {
        // "https://" is important!
        output.innerHTML = "Opening YouTube";
        window.open("https://www.youtube.com", "_blank");
        }

        else if (words.match("open onestate"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Onestate Coding on
YouTube";
```

```
window.open("https://www.youtube.com/channel/UCrphqZNc_r-
KsOTeTKH5hwA", "_blank");
        }

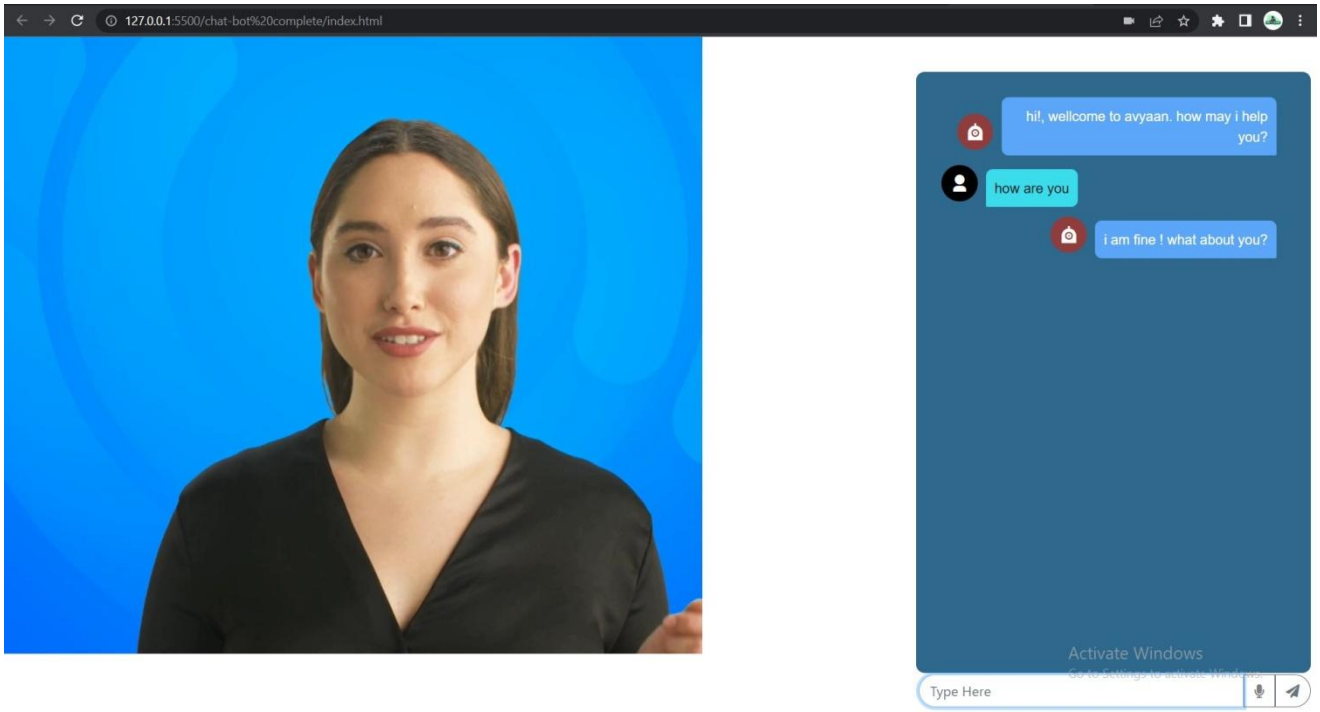
        else if (words.match("open light-lens"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Light-Lens on Github";
        window.open("https://github.com/Light-Lens", "_blank");
        }

        else{
            speech.text = "Sorry!, i didn't catch you";
        }

    };

// button.addEventListener("click",()=>{
//     recognition.start();
// });
```

5. SCREENSHOTS



6. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experience for all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

INTERNSHIP REPORT

A report submitted in partial fulfillment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE & ENGINEERING

BY

Ms. Sonam Parmar

Enrollment No. (0115CS191105)

Under Supervision of

Mr. Dheeraj Saxena

Avyaan Management Private Limited, Bhopal

CIN: U74910MP2022PTC061300

(Duration: 02 Jan, 2023 to 02 Apr, 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL, M.P

SESSION Jan-Jun 2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Ms. Sonam Parmar (0115CS191105)** is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Avyaan Management Private Limited Bhopal M.P.**

Prof. Mahendra Sahare
Internship Coordinator

Prof. Anurag Shrivastava
HOD , CSE, NIIST, Bhopal

CIN:U74910MP2022PTC061300

Date: 01-Jan-2023

Offer Letter

Ms. Sonam Parmar
Lig-2, housing
board, Bhopal,
462041

Sub: Internship Offer Letter

Dear Ms. Sonam Parmar,

On behalf of Avyaan Management Pvt Ltd., we are elated to inform you that you have been selected for the position of 'Software-Engineer' internship with our company. On your acceptance of this offer letter, you will be required to join the organization from Jan 02, 2023.

I would like to inform you that the duration of this internship will be 3 months and it will be an paid internship and its stipend will depend on their performance. During this time, your employment status with Avyaan Management Pvt Ltd.will be temporary and therefore, you will not be entitled for kind of privileges that other employees of the company are entitled to.

Your internship will end on Apr 02, 2023, and we will issue you a certificate based on your performance at the end of the internship. I would also like to highlight that the company holds complete rights to terminate your internship anytime during this period with or without any reason.

During your internship, you will get access to different kinds of confidential information about the company and by accepting this offer letter, you agree that you will take complete care in maintaining the confidentiality of all the information you come across and by any means, you will not be using it for any kind of personal benefits or reasons other than work related tasks. On completion of your internship, you will be required to handover all the official documents, laptop and other company possessions that will be given to you during your internship.

By accepting this offer letter, you agree to all the terms and conditions that have been mentioned above and you agree that you will be following all the rules and regulations at the company, and you will also be observing all the practices and policies that define the working and conduct at the company.

We look forward to having you onboard and we are hopeful that this association will be mutually beneficial to both the parties. If you have any other queries, please feel free to write at hr@avyaanmgmt.com. You will need to express your acceptance to the appointment as trainee with our company by signing the copy of this document and sharing it with us by post.

Congratulations and welcome aboard.

Thanking You

For Avyaan Management Pvt Ltd



HR Manager

Certificate of Internship Completion

Lig-2, housing
board, Bhopal,
462041

Sub: Internship Completion Letter

This is to certify that **Ms. Sonam Parmar** has successfully completed **3 Months** from of internshipwith **Avyaan Management pvt. Ltd.** from (02-Jan 2023 to 02-Apr 2023). During the course of the internship, Ms. Sonam Parmar demonstrated a high level of commitment, professionalism, and enthusiasm towards the assigned tasks.

Ms. Sonam Parmar was involved in many projects and showed a remarkable level of aptitude and expertise in programming languages like HTML, CSS, JAVASCRIPT and REACT JS. The internship program provided Ms. Sonam Parmar with a valuable opportunity to gain practical experience in It Industry and software development, and we are confident that these skills and experiences will prove beneficial in programming.

We wish Ms. Sonam Parmar all the best in programing and are confident that Ms. Sonam Parmar will continue to excel in their endeavors.

Thanking You

For Avyaan Management Pvt Ltd

HR Manager

ACHNOWLEDGEMENT

First I would like to thank **Mr. Dheeraj Saxena**, **Avyaan Management Private Limited Bhopal** for giving me the opportunity to do an internship with in the organization. I also would like all the people that worked along with , **Avyaan Management Private Limited Bhopal** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebted to Director **Dr. Rajeev Arya** for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Prof. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Mahendra Sahare,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Sonam Parmar

(0115CS191105)

ABSTRACT

The Company:

, **Avyaan Management Private Limited Bhopal** is an independent software testing and Technical service provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutions we provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Avyaan Management Private Limited Bhopal** understands this gap and bridges it with its best in class testing and technical services. , **Avyaan Management Private Limited Bhopal** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical support by deploying industry's most reliable technology solutions for technical services like unit, functional, GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implemented using PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the ones who have been through the –school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects we saw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all, the interviews yielded 150 pages of transcripts. In one organization, two different projects were interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of the organizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development of the product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because of the immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript,

Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in a few hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

Code-

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Genius Voice Assistant</title>
  <img height="32" width="32" src="img/admin-fill.svg" />
  <link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css"
rel="stylesheet">
  <link rel="stylesheet" href="style.css">
  <link rel="stylesheet" href="bootstrap.css">
  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.1/css/all.css"
    integrity="sha384-vp86vTRFVJgpjF9jiIGPEEqYqlDwgyBgEF109VFjmqGmIY/Y4HV4d3Gp2irVfcrp"
crossorigin="anonymous">

</head>


<body>
  <video class="gif" src="./WhatsApp Video 2023-04-01 at 12.10.49 PM.mp4"></video>
  <!-- <video id="video" autoplay
    style="position:absolute;left:0px;top:0px;width: 320px; height: 240px; border: 1px
solid gray; display: none;">
  </video> -->
  <div class="container" id="chat-window">
    <div id="chatbox"></div>
    <div>

      <canvas id="canvas" style="position:absolute;width:0%; height: 0%;
left:0px;top:0px"></canvas>

    </div>
    <div id="chat-bar-bottom">
      <p></p>
    </div>
  </div>
  <div class="input-group" style="margin-top: 3% ; margin-bottom: 2%; border-radius: 5%;
width: 45%;">
    <input style="margin-left: 15%; margin-right: 0%; border-radius: 40px 0px  0px 40px;"
id="InputBox" type="text"
      class="form-control" placeholder="Type Here" aria-label="Recipient's username with
two button addons" name="msg"
      autofocus>
    <button style="margin-right: 0%; border-radius: 0px 0px 0px 0px;  " id="speak"
class="btn btn-outline-secondary"
      type="button" onclick="micOn()"> <span class="fas fa-microphone"></span></button>
    <button id="send-button" style=" margin-right: 15%; border-radius: 0px 40px 40px 0px;
"
      class="btn btn-outline-secondary" type="" onclick="sendButton()"><i class="fas fa-
paper-plane"></i></button>
  </div>

  <script src="FaceDetector.js"></script>
  <script src="WebcamManager.js"></script>

  <script>

  </script>
  <!-- face detection code ends -->
```

```
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
  <script src="//ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
  <script src="speak.js"></script>

</body>

</html>


/ face detection code starts here

// var count=0;
        var firstFaceDetected = false;
        var camStreamWidth = 640;
        var camStreamHeight = 480;

        var VIEW_WIDTH = 320;
        var VIEW_HEIGHT = 240;

        var video = document.getElementById("video");
        var canvas = document.getElementById("canvas");

        canvas.width = VIEW_WIDTH;
        canvas.height = VIEW_HEIGHT;

        var webcamParams = {
            video: {
                mandatory: {
                    maxWidth: camStreamWidth,
                    maxHeight: camStreamHeight,
                    minWidth: camStreamWidth,
                    minHeight: camStreamHeight
                }
            }
        };
        var webcamMgr = new WebCamManager(
            {
                webcamParams: webcamParams, //Set params for web camera
                testVideoMode: false,//true:force use example video for test false:use
web camera
                videoTag: video
            }
        );

        var faceDetector = new FaceDetector(
            {
                video: webcamMgr.getVideoTag(),
                flipLeftRight: false,
                flipUpsideDown: false
            }
        );

        webcamMgr.setOnGetUserMediaCallback(function () {
            faceDetector.startDetecting();
        });



        faceDetector.setOnFaceAddedCallback(function (addedFaces, detectedFaces) {
            setTimeout(() => {
                for (var i = 0; i < addedFaces.length; i++) {
                    console.log("[facedetector] New face detected id=" +
```

```
addedFaces[i].faceId + " index=" + addedFaces[i].faceIndex);

                    if (!firstFaceDetected) {
                        firstFaceDetected = true; // set the flag to true to indicate the
first face is detected
                        setTimeout(() => { // wait for 10 seconds
                            let firstMessage = "aaaaaaaa";
                            computerSpeech(firstMessage);
                            activationMassege();
                        }, 3000);
                    }

                }
            }, 3000)
        });



        faceDetector.setOnFaceUpdatedCallback(function (detectedFaces) {

            var ctx = canvas.getContext("2d");
            ctx.clearRect(0, 0, VIEW_WIDTH, VIEW_HEIGHT);

            ctx.strokeStyle = "red";
            ctx.lineWidth = 3;
            ctx.fillStyle = "red";
            ctx.font = "italic small-caps bold 20px arial";

            for (var i = 0; i < detectedFaces.length; i++) {

                var face = detectedFaces[i];

                ctx.fillText(face.faceId, face.x * VIEW_WIDTH, face.y * VIEW_HEIGHT);
                ctx.strokeRect(face.x * VIEW_WIDTH, face.y * VIEW_HEIGHT + 10, face.width
* VIEW_WIDTH, face.height * VIEW_HEIGHT);

            }
        });


        webcamMgr.startCamera();
// face detection code ends here



// speech recognition code starts here


opening for the various profiles and you can ask for the JD on the reception itself.";
        }

        else if(words.match("policies")||words.match("rules")){
            speech.text = "we are following each and every rule in which we are bounded
woth the INdian Govt rules of labour LAws tht we have registred with.";
        }

        else
if(words.match("work")||words.match("kaam")||words.match("activities")||words.match("work
ing")||words.match("type of work")){
            speech.text = "we are one of the leading service providers for domestic and
international clientsfor the domains like AI&ML industry in which we cover data
collection and data annotation along with contact center services of multiple clients
around the nation and we also prviding th digital marketing services to national and
international clients so overall and last bot not the least IT services like webste
```

```
devploepment and software devlopement plus virtual assitance for the details informations
you can ask speceficcaly the details of the perticular domains";
        }

        else if(words.match("working days")||words.match("office days")){
            speech.text = "We works all week days, and their is a day off in week as per
workers choice either sunday or either thursday";
        }

        else
if(words.match("leaves")||words.match("holydays")||words.match("chutti")||words.match("ab
sent")||words.match("closed")||words.match("off days")){
            speech.text = "As we work all week days so if someone wants leave he/she can
mail ho HR manager or leave qeuries, otherwise some action we be taken on the worker if
taking leave without informing HR.";
        }

        else if(words.match("forms")||words.match("registeration
form")||words.match("apply")||words.match("application
form")||words.match("documents")||words.match("resume")||words.match("cv")){
            speech.text = "self information form or interview form available at reception
desk";
        }

        else
if(words.match("attendance")||words.match("present")||words.match("fingerprint")||words.m
atch("absence")){
            speech.text = "We work 10:00 AM to 7:00 PM in all week days, While entering
the office workers have to punchin in the attendance monitoring device and vise-versa and
register your entery and outgoings at reception ";
        }

        else if(words.match("branches")||words.match("second
office")||words.match("local")||words.match("globle")){
            speech.text = " We have no branches, we have a main offce at 2nd Floor Shree
Ram Plaza ";
        }

        else if(words.match("washroom")|| words.match("restroom")||words.match("mens
washroom")||words.match("girls room")){
             speech.text = "Their are both men's and women's rest room's are available at
Avyaan office, they located at the left side of main enterance of office";
         }

         else
if(words.match("interview")||words.match("rounds")||words.match("hr")||words.match("first
round")||words.match("second round")||words.match("hr round")){
            speech.text = "normally there are 3 rounds 1. screening 2. technichal round
3. final round but it can be increadsed in exceptional cases ";
        }

        else if(words.match("processes")||words.match("office
work")||words.match("environment")||words.match("working place")){
            speech.text = "Avyaan Mangement has a quite good Working environment, Every
worker has their own table,chaire and desktop computer as well, and a ggod view of bhopal
at windoew";
        }

        else if(words.match("documents")||words.match("resume")||words.match("cv")){
            speech.text = "Resume/ CV needed while coming to give an interview, Theirfor
after all rounds of interview some document needed to submit to HR like- Marksheet 10
standard, Aadhar Card and two Photos. ";
        }
```

```
        else if (words.match("map")||words.match("map location")||words.match("avyaan
location")||words.match("location")||words.match("area")||words.match("company place"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management pvt. ltd. location page";
        window.open("https://goo.gl/maps/z8EjmmwzW2PMy4G39", "_blank");
        }

        else if(words.match("contact")||words.match("mobile
number")||words.match("email")||words.match("contact information")){
            speech.text = "You can contact us via phone :-  +91 0755-4940937 and via
Email :- connect@avyaanmgmt.com";
        }

        else if(words.match("company")||words.match("your company")||words.match("avyaan
management")||words.match("private limited")){
            speech.text = "In 2022, Avyaan Management started its journey towards service
industry exploring into divergent areas where BPO, KPO, RPO is a part as well as becoming
a pioneer in the field of Future AI. Over the year, we also expanded into different
service zones including AI/ML, Digital marketing, Chatbot. Customer support services
(24*7), Technical support services etc.";
        }

        else if(words.match("good morning")||words.match("morning")){
            speech.text = "A very Good morning to you!";

        }
        else if(words.match("good afternoon")||words.match("afternoon")){
           speech.text = "A very Good Afternoon to you!";
        }

        else if(words.match("good evening")||words.match("evening")){
            speech.text = "A very Good Evening to you!";
        }

        else if(words.match("about")||words.match("about abhiyaan")||words.match("about
company")){
            // "https://" is important!
            document.innerHTML = "Opening Avyaan Management pvt. ltd. About page";
            window.open("https://www.avyaanmgmt.com/about.html", "_blank");
            }

        else if(words.match("aaaaaaaa")){
            speech.text = "hi!, wellcome to avyaan. how may i help you?";
        }

        else if(words.match("thankyou")||words.match("thank
you")||words.match("by")||words.match("by by")){
            speech.text = "Glad to help you! ";
            console.log("hi");
            $("#chatbox").val("");
        }

        else if (words.match("open avyaan")||words.match("open avyaan"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management Web page";
        speech.text = "Opening Avyaan Management Web page";
        window.open("https://www.avyaanmgmt.com/", "_blank");
        }


        else if (words.match("open youtube"))
        {
```

```
        // "https://" is important!
        output.innerHTML = "Opening YouTube";
        window.open("https://www.youtube.com", "_blank");
        }

        else if (words.match("open onestate"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Onestate Coding on YouTube";
        window.open("https://www.youtube.com/channel/UCrphqZNc_r-KsOTeTKH5hwA",
"_blank");
        }

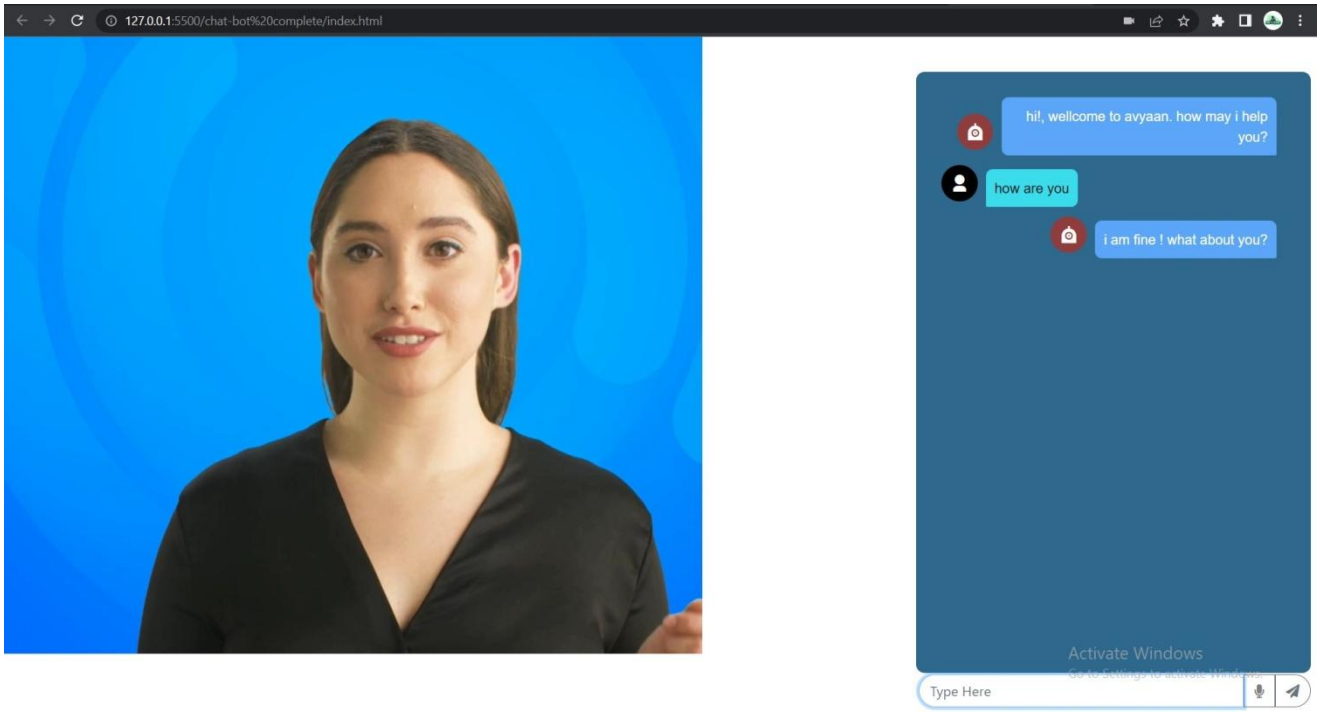
        else if (words.match("open light-lens"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Light-Lens on Github";
        window.open("https://github.com/Light-Lens", "_blank");
        }

        else{
            speech.text = "Sorry!, i didn't catch you";
        }

    };

// button.addEventListener("click",()=>{
//     recognition.start();
// });
```

5. SCREENSHOTS



6. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experience for all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

INTERNSHIP REPORT

A report submitted in partial fulfillment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE & ENGINEERING

BY

Ms. Sumaiya Khan

Enrollment No. (0115CS191109)

Under Supervision of

Mr. Dheeraj Saxena

Avyaan Management Private Limited, Bhopal

CIN: U74910MP2022PTC061300

(Duration: 02 Jan, 2023 to 02 Apr, 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL, M.P

SESSION Jan-Jun 2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Ms. Sumaiya khan (0115CS191109)** is work done by her and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Avyaan Management Private Limited Bhopal M.P.**

Prof. Mahendra Sahare
Internship Coordinator

Prof. Anurag Shrivastava
HOD , CSE, NIIST, Bhopal

Date: 01-Jan-2023

Offer Letter

Ms. Sumaiya Khan

Hazrat Nizamuddin,
Bhopal, 462021

Sub: Internship Offer Letter

Dear Ms. Sumaiya Khan,

On behalf of Avyaan Management Pvt Ltd., we are elated to inform you that you have been selected for the position of 'Software-Engineer' internship with our company. On your acceptance of this offer letter, you will be required to join the organization from Jan 03, 2023.

I would like to inform you that the duration of this internship will be 3 months and it will be an paid internship and the stipend of internship depends on the performance of intern. During this time, your employment status with Avyaan Management Pvt Ltd. will be temporary and therefore, you will not be entitled for kind of privileges that other employees of the company are entitled to.

Your internship will end on April 3rd, 2023, and we will issue you a certificate based on your performance at the end of the internship. I would also like to highlight that the company holds complete rights to terminate your internship anytime during this period with or without any reason.

During your internship, you will get access to different kinds of confidential information about the company and by accepting this offer letter, you agree that you will take complete care in maintaining the confidentiality of all the information you come across and by any means, you will not be using it for any kind of personal benefits or reasons other than work related tasks. On completion of your internship, you will be required to handover all the official documents, laptop and other company possessions that will be given to you during your internship.

By accepting this offer letter, you agree to all the terms and conditions that have been mentioned above and you agree that you will be following all the rules and regulations at the company, and you will also be observing all the practices and policies that define the working and conduct at the company.

We look forward to having you onboard and we are hopeful that this association will be mutually beneficial to both the parties. If you have any other queries, please feel free to write at hr@avyaanmgmt.com. You will need to express your acceptance to the appointment as trainee with our company by signing the copy of this document and sharing it with us by post.

Congratulations and welcome aboard.

Thanking You

For Avyaan Management Pvt Ltd



HR Manager

CIN-U74910MP2022PTC061300

Certificate of Internship Completion

Hazrat Nizamuddin,
Bhopal, 462021

Sub: Internship Completion Letter

This is to certify that **Sumaiya Khan** has successfully completed **3 Months** from of internship with **Avyaan Management pvt. Ltd.** from (02-Apr 2023 to 02-Apr 2023). During the course of the internship. Sumaiya Khan demonstrated a high level of commitment, professionalism, and enthusiasm towards the assigned tasks.

Sumaiya Khan was involved in many projects and showed a remarkable level of aptitude and expertise in programming languages like HTML, CSS, JAVASCRIPT and REACT JS. The internship program provided. Sumaiya Khan with a valuable opportunity to gain practical experience in It Industry and software development, and we are confident that these skills and experiences will prove beneficial in programming.

We wish. Sumaiya Khan all the best in programing and are confident that. Sumaiya Khan will continue to excel in their endeavors.

Thanking You

For Avyaan Management Pvt Ltd

HR Manager

www.avyaanmgmt.com 0755-4940937 connect@avyaanmgmt.com
:ShreeRamPlaza,2ndFloor,AboveHDFCBank,InFrontOfSheetalParadiseAyodhyaBypassRdBhopal,462023

ACHNOWLEDGEMENT

First I would like to thank **Mr. Dheeraj Saxena**, **Avyaan Management Private Limited Bhopal** for giving me the opportunity to do an internship with in the organization. I also would like all the people that worked along with , **Avyaan Management Private Limited Bhopal** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebted to Director **Dr. Rajeev Arya** for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Prof. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Mahendra Sahare,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Sumaiya Khan

(0115CS191109)

ABSTRACT

The Company:

Avyaan Management Private Limited Bhopal is an independent software testing and Technical service provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutions we provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. **Avyaan Management Private Limited Bhopal** understands this gap and bridges it with its best in class testing and technical services. **Avyaan Management Private Limited Bhopal** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical support by deploying industry's most reliable technology solutions for technical services like unit, functional, GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implemented using PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the ones who have been through the –school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects we saw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all, the interviews yielded 150 pages of transcripts. In one organization, two different projects were interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of the organizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development of the product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because of the immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript,

Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in a few hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

Code-

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Genius Voice Assistant</title>
  <img height="32" width="32" src="img/admin-fill.svg" />
  <link href="https://cdn.jsdelivr.net/npm/remixicon@2.5.0/fonts/remixicon.css"
rel="stylesheet">
  <link rel="stylesheet" href="style.css">
  <link rel="stylesheet" href="bootstrap.css">
  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.1/css/all.css"
    integrity="sha384-vp86vTRFVJgpjF9jiIGPEEqYqlDwgyBgEF109VFjmqGmIY/Y4HV4d3Gp2irVfcrp"
crossorigin="anonymous">

</head>


<body>
  <video class="gif" src="./WhatsApp Video 2023-04-01 at 12.10.49 PM.mp4"></video>
  <!-- <video id="video" autoplay
    style="position:absolute;left:0px;top:0px;width: 320px; height: 240px; border: 1px
solid gray; display: none;">
  </video> -->
  <div class="container" id="chat-window">
    <div id="chatbox"></div>
    <div>

      <canvas id="canvas" style="position:absolute;width:0%; height: 0%;
left:0px;top:0px"></canvas>

    </div>
    <div id="chat-bar-bottom">
      <p></p>
    </div>
  </div>
  <div class="input-group" style="margin-top: 3% ; margin-bottom: 2%; border-radius: 5%;
width: 45%;">
    <input style="margin-left: 15%; margin-right: 0%; border-radius: 40px 0px  0px 40px;"
id="InputBox" type="text"
      class="form-control" placeholder="Type Here" aria-label="Recipient's username with
two button addons" name="msg"
      autofocus>
    <button style="margin-right: 0%; border-radius: 0px 0px 0px 0px;  " id="speak"
class="btn btn-outline-secondary"
      type="button" onclick="micOn()"> <span class="fas fa-microphone"></span></button>
    <button id="send-button" style=" margin-right: 15%; border-radius: 0px 40px 40px 0px;
"
      class="btn btn-outline-secondary" type="" onclick="sendButton()"><i class="fas fa-
paper-plane"></i></button>
  </div>

  <script src="FaceDetector.js"></script>
  <script src="WebcamManager.js"></script>

  <script>

  </script>
  <!-- face detection code ends -->
```

```
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
  <script src="//ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
  <script src="speak.js"></script>

</body>

</html>


/ face detection code starts here

// var count=0;
        var firstFaceDetected = false;
        var camStreamWidth = 640;
        var camStreamHeight = 480;

        var VIEW_WIDTH = 320;
        var VIEW_HEIGHT = 240;

        var video = document.getElementById("video");
        var canvas = document.getElementById("canvas");

        canvas.width = VIEW_WIDTH;
        canvas.height = VIEW_HEIGHT;

        var webcamParams = {
            video: {
                mandatory: {
                    maxWidth: camStreamWidth,
                    maxHeight: camStreamHeight,
                    minWidth: camStreamWidth,
                    minHeight: camStreamHeight
                }
            }
        };
        var webcamMgr = new WebCamManager(
            {
                webcamParams: webcamParams, //Set params for web camera
                testVideoMode: false,//true:force use example video for test false:use
web camera
                videoTag: video
            }
        );

        var faceDetector = new FaceDetector(
            {
                video: webcamMgr.getVideoTag(),
                flipLeftRight: false,
                flipUpsideDown: false
            }
        );

        webcamMgr.setOnGetUserMediaCallback(function () {
            faceDetector.startDetecting();
        });



        faceDetector.setOnFaceAddedCallback(function (addedFaces, detectedFaces) {
            setTimeout(() => {
                for (var i = 0; i < addedFaces.length; i++) {
                    console.log("[facedetector] New face detected id=" +
```

```
addedFaces[i].faceId + " index=" + addedFaces[i].faceIndex);

                    if (!firstFaceDetected) {
                        firstFaceDetected = true; // set the flag to true to indicate the
first face is detected
                        setTimeout(() => { // wait for 10 seconds
                            let firstMessage = "aaaaaaaa";
                            computerSpeech(firstMessage);
                            activationMassege();
                        }, 3000);
                    }

                }
            }, 3000)
        });



        faceDetector.setOnFaceUpdatedCallback(function (detectedFaces) {

            var ctx = canvas.getContext("2d");
            ctx.clearRect(0, 0, VIEW_WIDTH, VIEW_HEIGHT);

            ctx.strokeStyle = "red";
            ctx.lineWidth = 3;
            ctx.fillStyle = "red";
            ctx.font = "italic small-caps bold 20px arial";

            for (var i = 0; i < detectedFaces.length; i++) {

                var face = detectedFaces[i];

                ctx.fillText(face.faceId, face.x * VIEW_WIDTH, face.y * VIEW_HEIGHT);
                ctx.strokeRect(face.x * VIEW_WIDTH, face.y * VIEW_HEIGHT + 10, face.width
* VIEW_WIDTH, face.height * VIEW_HEIGHT);

            }
        });


        webcamMgr.startCamera();
// face detection code ends here



// speech recognition code starts here


opening for the various profiles and you can ask for the JD on the reception itself.";
        }

        else if(words.match("policies")||words.match("rules")){
            speech.text = "we are following each and every rule in which we are bounded
woth the INdian Govt rules of labour LAws tht we have registred with.";
        }

        else
if(words.match("work")||words.match("kaam")||words.match("activities")||words.match("work
ing")||words.match("type of work")){
            speech.text = "we are one of the leading service providers for domestic and
international clientsfor the domains like AI&ML industry in which we cover data
collection and data annotation along with contact center services of multiple clients
around the nation and we also prviding th digital marketing services to national and
international clients so overall and last bot not the least IT services like webste
```

```
devploepment and software devlopement plus virtual assitance for the details informations
you can ask speceficcaly the details of the perticular domains";
        }

        else if(words.match("working days")||words.match("office days")){
            speech.text = "We works all week days, and their is a day off in week as per
workers choice either sunday or either thursday";
        }

        else
if(words.match("leaves")||words.match("holydays")||words.match("chutti")||words.match("ab
sent")||words.match("closed")||words.match("off days")){
            speech.text = "As we work all week days so if someone wants leave he/she can
mail ho HR manager or leave qeuries, otherwise some action we be taken on the worker if
taking leave without informing HR.";
        }

        else if(words.match("forms")||words.match("registeration
form")||words.match("apply")||words.match("application
form")||words.match("documents")||words.match("resume")||words.match("cv")){
            speech.text = "self information form or interview form available at reception
desk";
        }

        else
if(words.match("attendance")||words.match("present")||words.match("fingerprint")||words.m
atch("absence")){
            speech.text = "We work 10:00 AM to 7:00 PM in all week days, While entering
the office workers have to punchin in the attendance monitoring device and vise-versa and
register your entery and outgoings at reception ";
        }

        else if(words.match("branches")||words.match("second
office")||words.match("local")||words.match("globle")){
            speech.text = " We have no branches, we have a main offce at 2nd Floor Shree
Ram Plaza ";
        }

        else if(words.match("washroom")|| words.match("restroom")||words.match("mens
washroom")||words.match("girls room")){
             speech.text = "Their are both men's and women's rest room's are available at
Avyaan office, they located at the left side of main enterance of office";
         }

         else
if(words.match("interview")||words.match("rounds")||words.match("hr")||words.match("first
round")||words.match("second round")||words.match("hr round")){
            speech.text = "normally there are 3 rounds 1. screening 2. technichal round
3. final round but it can be increadsed in exceptional cases ";
        }

        else if(words.match("processes")||words.match("office
work")||words.match("environment")||words.match("working place")){
            speech.text = "Avyaan Mangement has a quite good Working environment, Every
worker has their own table,chaire and desktop computer as well, and a ggod view of bhopal
at windoew";
        }

        else if(words.match("documents")||words.match("resume")||words.match("cv")){
            speech.text = "Resume/ CV needed while coming to give an interview, Theirfor
after all rounds of interview some document needed to submit to HR like- Marksheet 10
standard, Aadhar Card and two Photos. ";
        }
```

```
        else if (words.match("map")||words.match("map location")||words.match("avyaan
location")||words.match("location")||words.match("area")||words.match("company place"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management pvt. ltd. location page";
        window.open("https://goo.gl/maps/z8EjmmwzW2PMy4G39", "_blank");
        }

        else if(words.match("contact")||words.match("mobile
number")||words.match("email")||words.match("contact information")){
            speech.text = "You can contact us via phone :-  +91 0755-4940937 and via
Email :- connect@avyaanmgmt.com";
        }

        else if(words.match("company")||words.match("your company")||words.match("avyaan
management")||words.match("private limited")){
            speech.text = "In 2022, Avyaan Management started its journey towards service
industry exploring into divergent areas where BPO, KPO, RPO is a part as well as becoming
a pioneer in the field of Future AI. Over the year, we also expanded into different
service zones including AI/ML, Digital marketing, Chatbot. Customer support services
(24*7), Technical support services etc.";
        }

        else if(words.match("good morning")||words.match("morning")){
            speech.text = "A very Good morning to you!";

        }
        else if(words.match("good afternoon")||words.match("afternoon")){
           speech.text = "A very Good Afternoon to you!";
        }

        else if(words.match("good evening")||words.match("evening")){
            speech.text = "A very Good Evening to you!";
        }

        else if(words.match("about")||words.match("about abhiyaan")||words.match("about
company")){
            // "https://" is important!
            document.innerHTML = "Opening Avyaan Management pvt. ltd. About page";
            window.open("https://www.avyaanmgmt.com/about.html", "_blank");
            }

        else if(words.match("aaaaaaaa")){
            speech.text = "hi!, wellcome to avyaan. how may i help you?";
        }

        else if(words.match("thankyou")||words.match("thank
you")||words.match("by")||words.match("by by")){
            speech.text = "Glad to help you! ";
            console.log("hi");
            $("#chatbox").val("");
        }

        else if (words.match("open avyaan")||words.match("open avyaan"))
        {
        // "https://" is important!
        document.innerHTML = "Opening Avyaan Management Web page";
        speech.text = "Opening Avyaan Management Web page";
        window.open("https://www.avyaanmgmt.com/", "_blank");
        }


        else if (words.match("open youtube"))
        {
```

```
        // "https://" is important!
        output.innerHTML = "Opening YouTube";
        window.open("https://www.youtube.com", "_blank");
        }

        else if (words.match("open onestate"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Onestate Coding on YouTube";
        window.open("https://www.youtube.com/channel/UCrphqZNc_r-KsOTeTKH5hwA",
"_blank");
        }

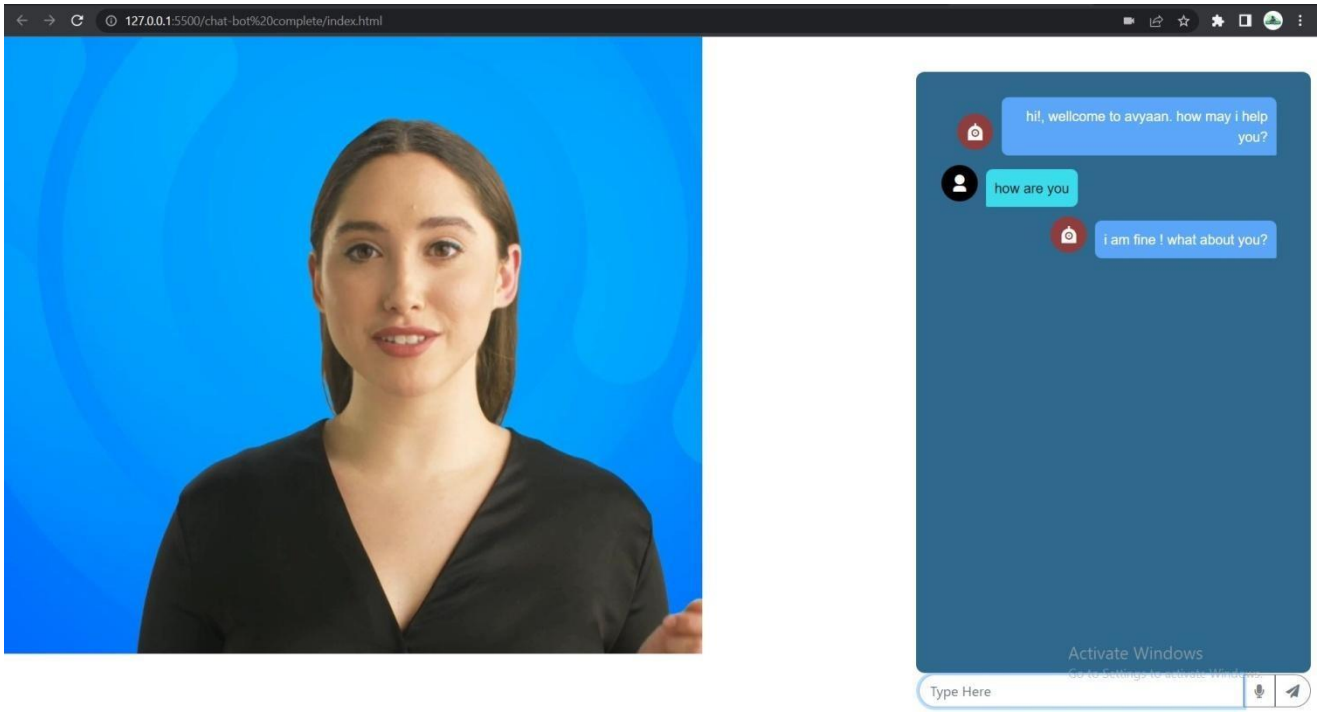
        else if (words.match("open light-lens"))
        {
        // "https://" is important!
        output.innerHTML = "Opening Light-Lens on Github";
        window.open("https://github.com/Light-Lens", "_blank");
        }

        else{
            speech.text = "Sorry!, i didn't catch you";
        }

    };

// button.addEventListener("click",()=>{
//     recognition.start();
// });
```

5. SCREENSHOTS



6. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experience for all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

INTERNSHIP REPORT

BACHELOR OF TECHNOLOGY
&
COMPUTER SCIENCE ENGINEERING

BY

Mr. Kaleem Ashraf

Enrollment No. (0115CS191039)

Under Supervision of

Mr. Nick Jonas

Datacom Private Limited, New Zealand

(Duration: 02 Jan, 2023 to 02 Apr, 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL, M.P

SESSION Jan-Jun 2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Mr. Kaleem Ashraf (0115CS191039)** is work done by him and submitted during 2022 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **DATACOM.**

Prof. Mahendra Sahare
Internship Coordinator

Prof. Anurag Shrivastava
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DATACOM

Forage

Inspiring and empowering future professionals

Kaleem Ashraf

Software Development Virtual Experience Program

Certificate of Completion

April 1th, 2023

Over the period of April 2023, Kaleem Ashraf has completed practical tasks in:

Create a ReactWeb App

Tom Brunskill
CEO, Co-Founder of Forage

Enrolment Verification Code SwJyWXKfaQFuSQuhF | User Verification Code xyWYfJgtW56ApyKgL | Issued by **Forage**

ACHNOWLEDGEMENT

First I would like to **thank Mr. Nick Jhonas, DATACOM** for giving me the opportunity to do an internship withi n the organization. I also would like all the people that worked along with, **DATACOM** . with their patience and openness, they created an enjoyable working environment. It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebted to Director **Dr. Rajeev Arya** for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Mahendra Sahare,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Kaleem Ashraf

(0115CS191039)

ABSTRACT

The Company:

DATACOM is an independent software testing and Technical service provider company, driven by industry experts and thought leaders in software testing and Technical services domain.We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutions we provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider **DATACOM** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical support by deploying industry's most reliable technology solutions for technical services like unit, functional, GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implemented using PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the oneswho have been through the ―school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all,the interviews yielded 150 pages of transcripts. In one organization, two different projects were

interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of theorganizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development ofthe product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because ofthe immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews. A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript,

Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general- purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure yourweb server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in afew hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

5. CODING

Login page:-

```
<p> </p>
<p> </p>
<p> </p>
<?php
session_start();
?>
<script language="javascript">
function validate()
{
    if(document.stdform.regno.value=="")
    {
        alert("Please enter Register Number");
        document.stdform.regno.focus();
        return false;
    }
    else  if(document.stdform.password.value=="")
    {
        alert("Please enter password ");
        document.stdform.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}

</script>

<script language="javascript">
function validate1()
{
    if(document.empform.loginid.value=="")
    {
        alert("Please enter Login ID");
        document.empform.loginid.focus();
        return false;
    }
    else  if(document.empform.password.value=="")
    {
        alert("Please enter password");
        document.empform.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}
```

```
</script>
<?php
include("header.php");
include("dbconnection.php");
$dt = date("Y-m-d h:i:s");
if(isset($_SESSION["empid"]))
{
    header("Location:  dashboard.php");
}
if(isset($_SESSION["regno"]))
{
    header("Location:  studentpanel.php");
}
if(isset($_POST["submit"]))
{
    $sql = "SELECT * FROM students WHERE RegNo='$_POST[regno]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg = "<br><strong><font color='green'>Student logged in
successfully..</font></strong>";
        $_SESSION['regno']=$rs['RegNo'];
        header("Location:  studentpanel.php");
    }
    else
    {
        $msg = "<br><strong><font color='red'>Failed to login</font></strong>";
    }
}

if(isset($_POST["submit1"]))
{

$sql = "SELECT * FROM employees WHERE loginid='$_POST[loginid]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
            $sqlupd = "UPDATE employees SET lastlogin='$dt' where
loginid='$_POST[loginid]'";
            mysqli_query($con,$sqlupd);

        $rs = mysqli_fetch_array($result);
        $msg1 = "<br><strong><font color='green'>Employee logged in
successfully..</font></strong>";
        echo  $_SESSION['empid']=$rs['empid'];
        header("Location: dashboard.php");
    }
    else
    {
        $msg1 = "<br><strong><font color='red'>Failed to login</font></strong>";
    }
```

```
}

?>
        <div class="row space30"> <!-- row 1 begins -->

            <div class="col-md-6">
            <h2>Student Login</h2>
                <p>Please enter registration Number and password to login..<?php
                global $msg;
                echo $msg; ?></p>

                <form role="form" name="stdform" method="post" action=""
onsubmit="return validate()">
                  <div class="form-group">
                    <label for="name">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration number">
                  </div>
                  <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                  <input type="submit" name="submit" value="Sign In" class="btn btn-
default">
                </form>
            </div>

            <div class="col-md-6">
                <h2>Employee Login Panel</h2>
                <p>Please enter Login ID and password<?php
                global $msg1;
                echo $msg1; ?>.</p>

                <form name="empform" role="form" method="post" action=""
onsubmit="return validate1()">
                  <div class="form-group">
                    <label for="name">Login ID:</label>
                    <input name="loginid" type="text" class="form-control" id="loginid"
placeholder="Enter your Login ID">
                  </div>
                   <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                   <input type="submit" name="submit1" value="Sign In" class="btn btn-
default">
                </form>

           </div>

        </div> <!-- /row 1 -->
    <?php
```

```
    include("footer.php");
    ?>
```

```
<?php
session_start();
$dttim = date("Y-m-d h:i:s");
?>

<script language="javascript">
function validate1()
{
    if(document.form1.regno.value=="")
    {
        alert("Please enter Register Numbe");
        document.form1.regno.focus();
        return false;
    }
    else  if(document.form1.password.value=="")
    {
        alert("Please enter password ");
        document.form1.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}

</script>

<script language="javascript">
function validate2()
{
    if(document.form2.loginid.value=="")
    {
        alert("Please enter Login ID");
        document.form2.loginid.focus();
        return false;
    }
    else  if(document.form2.password.value=="")
    {
        alert("Please enter password");
        document.form2.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}
```

```
</script>


<script language="javascript">
function validate3()
{

        if(document.form3.fname.value=="")
    {
        alert("Please enter First Name");
        document.form3.fname.focus();
        return false;
    }
    else if(document.form3.regno.value =="")
    {
        alert("Please enter Register Number");
        document.form3.regno.focus();
        return false;
    }
    else if(isNaN(document.form3.regno.value) ==true)
    {
        alert("Please enter numerical value in Registration Number");
        document.form3.regno.focus();
        return false;
    }
    else if(document.form3.newpassword.value =="")
    {
        alert("Password Should not be empty..");
        document.form3.newpassword.focus();
        return false;
    }
    else if(document.form3.newpassword.value.length < 6)
    {
        alert("Password must contain atleast 6 charecters");
        document.form3.newpassword.focus();
        return false;
    }
    else   if(document.form3.newpassword.value!=   document.form3.confirmpassword.value)
    {
        alert("Password and confirm password not matching");
        document.form3.newpassword.focus();
        return false;
    }
    else   if(document.form3.course.value=="Select")
    {
        alert("Please enter course");
        return false;
    }

    else
    {
        return true;
    }
```

```
}
</script>


<?php
include("dbconnection.php");
if(isset($_SESSION["empid"]))
{
    header("Location:  dashboard.php");
}
if(isset($_SESSION["regno"]))
{
    header("Location: studentpanel.php");
}
if(isset($_POST["submit2"]))
{
    $sql = "SELECT * FROM students WHERE RegNo='$_POST[regno]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg = "<br><strong><h3><font color='green'>Student logged in
successfully..</font></h3></strong>";
        $_SESSION['regno']=$rs["RegNo"];
        header("Location:  studentpanel.php");
    }
    else
    {
        $msg = "<br><strong><h3><font color='red'>Failed to login</font></h3></strong>";
    }
}

if(isset($_POST["submit1"]))
{

$sql = "SELECT * FROM employees WHERE loginid='$_POST[loginid]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg1 = "<br><strong><font color='green'><h3>Employee logged in
successfully..</h3></font></strong>";
        echo  $_SESSION['empid']=$rs["empid"];
        $_SESSION['logintype']=$rs["logintype"];
        $_SESSION['lastlogin'] = $rs["lastlogin"];

        mysqli_query($con,"UPDATE employees SET lastlogin='$dttim' where
loginid='$_POST[loginid]'");
```

```
}
else
{
```

```
header("Location:  dashboard.php");



$msg1 = "<br><strong><font color='red'><h3>Failed to
 login</h3></font></strong>";
     }


 }
 global $setid;
 if($_POST["setid"]==$_SESSION['setid'])
 {
 if(isset($_POST["submit"]))
 {

 $sqlins="INSERT into
 students(FirstName,LastName,RegNo,Password,CourseId,Status)VALUES('$_POST[fname]','$_POS
 T[lname]','$_POST[regno]','$_POST[newpassword]','$_POST[course]','Enabled')";
 $sqlresult=mysqli_query($con,$sqlins);
 if(!$sqlresult)
 {
     $regresi=1;
     $regres = "<font color='red'><strong><h3>Failed to insert
 records</h3></strong></font>". mysqli_error($con);
 }
 else
 {
     $regresi=1;
     $regres = "<font color='green'><strong><h3>Registered
 successfully</h3></strong></font>";
 }
 }
 }
 $_SESSION['setid']=rand();

 include("header.php");
 ?>
         <div class="row space10"> <!-- row 1 begins -->

             <div class="col-sm-6 col-lg-4">

                 <img src="images/login.jpg" alt="Image 3" class="img-responsive img-
 rounded" />
               <h2>Student Login Panel</h2>
               <p><font color='blue'>Please enter registration Number and password to
 login. ..</font><?php
              global $msg1;
               echo $msg1; ?></p>

               <form role="form" name="form1" method="post" action="" onsubmit="return
 validate1()">
                   <div class="form-group">
                     <label for="name">Registration No.:</label>
                     <input name="regno" type="text" class="form-control" id="regno"
 placeholder="Enter your Registration number">
```

```
                </div>
                <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                </div>
```

```
                <input name="submit2" type="submit" class="btn btn-default" id="submit2"
value="Sign In">
                </form>

                <a href="forgotpassword.php"> <strong>Forgot Password</strong> </a>
                  <hr />
                  <h2>Employee Login Panel</h2>
                <p><font color='blue'>Please enter Login ID and password ... </font><?php
global $msg1; echo $msg1; ?>.</p>

                <form name="form2" role="form" method="post" action="" onsubmit="return
validate2()">
                  <div class="form-group">
                    <label for="name">Login ID:</label>
                    <input name="loginid" type="text" class="form-control" id="loginid"
placeholder="Enter your Login ID">
                  </div>
                   <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                   <input type="submit" name="submit1" value="Sign In" class="btn btn-
default">
                </form>

            </div>

          <div class="col-xs-12 col-sm-6 col-lg-8">
                <h2>THE CAREER GUIDANCE & INFORMATION CELL</h2>
              <p>The college has established the career guidance and information cell in
view of helping students to get useful and systematic guidance on careers open to them
in their respective field of study.The members of the Career Guidance Committee along
with the Co-ordinator of the Cell chalk out various enrichment programmes as well as
coduct coaching classes in order to train the students to answer various competitive
examinations.An attempt is made to hod campus recruitments for the benefit of those
students who are pursuing professional and vocational courses of study. </p>

 <h2>Sign Up</h2>

        <?php
        global $regresi;
                if($regresi == 1)
                {
                echo "<p><font color='green'><h2>Registered
succesfully. ..</h2></font></p>";
                }
                else
                {
                echo "<p><font color='blue'><h2>Please enter following
details.....</h2></font></p>";
                }
        ?>
```

```
                <form name="form3" role="form" method="post" action="" onsubmit="return
validate3()">
                  <div class="form-group">
                  <input type="hidden" name="setid" value="<?php echo
$_SESSION['setid']; ?>" />

                    <label for="fname">First Name.:</label>
                    <input name="fname" type="text" class="form-control" id="fname"
placeholder="Enter First name">
                  </div>
                  <div class="form-group">
                    <label for="fname">Last name.:</label>
                    <input name="lname" type="text" class="form-control" id="lname"
placeholder="Enter Last name">
                  </div>
                  <div class="form-group">
                    <label for="fname">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration Number">
                  </div>
                  <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="newpassword" type="password" class="form-control"
id="newpassword" placeholder="New password">
                  </div>
                  <div class="form-group">
                    <label for="subject">Confirm Password:</label>
                    <input name="confirmpassword" type="password" class="form-control"
id="confirmpassword" placeholder="Confirm password">
                  </div>

                  <div class="form-group">
                    <label for="subject">Course:</label>
                    <select name="course"  class="form-control">
                    <option value="Select">Select course</option>
                    <?php
                    $sql="SELECT * FROM course WHERE status='Enabled'";
                    $resultquery = mysqli_query($con,$sql);
                    while($rsrec = mysqli_fetch_array($resultquery))
                    {
                        echo "<option value='$rsrec[CourseId]'>$rsrec[CourseName] |
Course code: $rsrec[coursecode]</option>";
                    }
                    ?>
                    </select>
                  </div>
                  <div class="checkbox">
                    <label>
                      <input name="newuser" type="checkbox" id="newuser" value="new"> I
am new user.
                    </label>
                  </div>
```

```
                  <input name="submit" type="submit" class="btn btn-default" id="submit"
value="Register here" onclick="if(!this.form.newuser.checked){alert('You  must  Select
New user option.');return false}" >
                </form>


 </div>

        </div> <!-- /row 1 -->

        <div class="row space10"> <!-- row 2 begins -->


        </div> <!-- /row 2 -->
<?php
include("footer.php");
?>
```

Dashboard :-

```
<?php
session_start();
include("dbconnection.php");
include("header.php");
?>
        <div class="row space10"> <!-- row 1 begins -->

  <?php
  include("adminsidebar.php");
  ?>

          <div class="col-xs-12 col-sm-6 col-lg-9">
                <h2>Dashboard</h2>
                <hr />
                <div class="col-md-4">
              <h4><b>Employees</b></h4>
                <img src="images/employees.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Employees:-
<?php
$sql = "SELECT * FROM employees where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
                </h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Companies</b></h4>
                <img src="images/companies.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Companies:-
```

```
                <?php
$sql = "SELECT * FROM companies where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
              </h4>  <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Course</b></h4>
                <img src="images/course.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Course:-
                  <?php
$sql = "SELECT * FROM course where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Jobs</b></h4>
              <img src="images/jobs-icon.jpg" alt="Image 1 "width="204" height="120"
class="img-responsive img-rounded img_left" />
              <h4>Jobs Published:-
                <?php
$sql = "SELECT * FROM jobs where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Students</b></h4>
              <img src="images/clients.png" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
              <h4>Students:-
                <?php
$sql = "SELECT * FROM students where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
        </h4>        <hr />
            </div>

                        <div class="col-md-4">
             <h4><b>Training   Program</b></h4>
                <img src="images/jde_training_services_img.jpg" alt="Image 1"
width="204" height="120" class="img-responsive img-rounded img_left" />
                <h4>Training Program:-
                  <?php
$sql = "SELECT * FROM trainingprogram where status='Enabled'";
```

```
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Selected Candidates</b></h4>
                <img src="images/selectedcandidates.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Selected Candidates:-
                  <?php
$sql = "SELECT * FROM selectedcandidate";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Current Jobs</b></h4>
                <img src="images/banner_2.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Active Jobs:-
                  <?php
                  $dt= date("Y-m-d");
$sql = "SELECT * FROM jobs where status='Enabled' AND InterviewDate >= '$dt'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Current Training Program</b></h4>
                <img src="images/currenttrainingprogram.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Active Training Programs :-
                <?php
                  $dt= date("Y-m-d");
$sql = "SELECT * FROM trainingprogram where status='Enabled' AND TPDatetime >= '$dt'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
                </h4>
                <hr />
            </div>

          </div>


        </div> <!-- /row 1 -->

        <div class="row space10"> <!-- row 2 begins -->
```

```
        </div> <!-- /row 2 -->
<?php
include("footer.php");
?>
```

6. SCREENSHOTS






Career Guidance
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Companies
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Training program
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Add Jobs
View Jobs
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Training program applicants
Selected candidates
View Selected candidates
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Edit student profile
Course
Select
Registration No.
Password
Confirm Password
First Name
Last Name
Image
Choose File
No file chosen
DOB
dd-mm-yyyy
Address
City
State
Select
Country
India
e Mail ID
admin
Contact No.
Mobile No.
Year of Passing
Select
Status
Select
Submit

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

8. BIBLIOGRAPHY

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3. Luke Welling, ―PHP and MySQL Web Development Book‖, 5th edition, Pearson India publications.
4. Larry Ullman, ―PHP and MySQL for Dynamic Web Sites‖, 4th edition, Pearson India publications.

Weblinks

To learn about the software required to use, we used, www.wikipidea.com

2. For more examples for learning, we referred, www.tutorialpoint.com.

3. For learning the PHP and MySQL integration, we referred,

www.w3schools.com

INTERNSHIP REPORT

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

BY

Mr. LASKHYA KUMAR TIWARI

Enrollment No. (0115CS191042)

Under Supervision of

Mr. Chandan Kumar

Tata Consultancy Services ION (TCS ION), Bhopal M.P.

(Duration: 15 Sep, 2022 to 09 October, 2022)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL, M.P

SESSION 2022-2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Mr. Lakshya Kumar Tiwari (0115CS191042)** is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Tata Consultancy Services ION (TCS ION).**

Internship Coordinator

HOD Department of CSE
Prof. Anurag Shrivastava
Computer science & Engineering NIIST,Bhopal

tcs iON

TATA

CERTIFICATE Of INTERNSHIP

This is to certify that

Lakshya Kumar Tiwari

has successfully completed Remote Internship

for **45** ***hours*** *in project titled*

Create a CAPTCHA Service to Secure a Simple Web-based Application

by TCS iON from 24 Sep 2022 *to* 09 Oct 2022 .

TCS iON REMOTE INTERNSHIPS
Academic Credits with Industry Mentors
Cert. ID.: 888-21799566-1016
Dated: 09 Oct 2022



Mehul Mehta

Mehul Mehta
Global Delivery Head - TCS iON,
Tata Consultancy Services

tcs iON

ACTIVITY DETAILS OF PARTICIPANT

Course Name : RIO-45: Create a CAPTCHA Service to Secure a Simple Web-based Application Batch 01

Course Duration : 60 Days

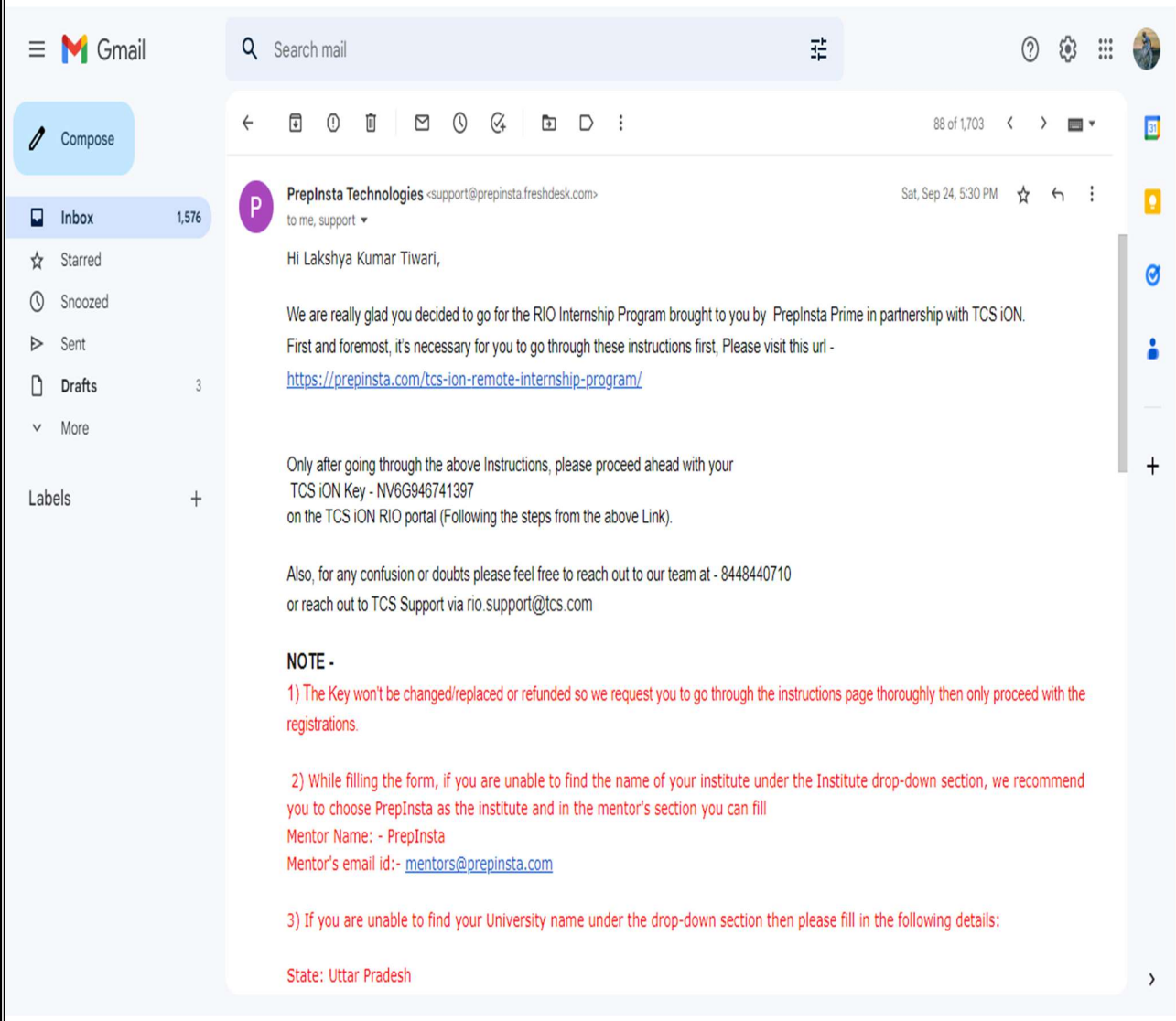
Course Type : Self Paced

Participant Name : Lakshya Kumar

Report Generated At : 09 Oct 2022 02:31 AM

Participant Email ID : lakshyatiwari6767@gmail.com

Activity Type	Activity Name	Attempt No	Total Marks	Pass Marks/CutOff	Marks Obtained	Grade	Activity Attempted	Activity Status	Assignment Link
Report	Project Report	1	30.0	0	20.0	NA	Completed	NA	N.A.
Report	Viva Project	1	NA	NA	NA	NA	Completed	NA	N.A.
Assessment	RIO Pre Assessment	1	40.0	20	27.0	NA	Completed	Pass	N.A.
Report	Day 1 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 2 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 3 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 4 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 5 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 6 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 7 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 8 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 9 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Day 10 - Activity Report	1	NA	NA	NA	NA	Completed	NA	N.A.
Report	Interim Project Report - 1	1	NA	NA	NA	NA	Completed	NA	N.A.
Assessment	Project Test	1	10.0	5	8.0	NA	Completed	Pass	N.A.


Gmail
Search mail
Compose
Inbox 1,576
Starred
Snoozed
Sent
Drafts 3
More
Labels
88 of 1,703
PrepInsta Technologies <support@prepinsta.freshdesk.com>
to me, support
Sat, Sep 24, 5:30 PM
Hi Lakshya Kumar Tiwari,
We are really glad you decided to go for the RIO Internship Program brought to you by PrepInsta Prime in partnership with TCS iON.
First and foremost, it's necessary for you to go through these instructions first, Please visit this url -
https://prepinsta.com/tcs-ion-remote-internship-program/
Only after going through the above Instructions, please proceed ahead with your
TCS iON Key - NV6G946741397
on the TCS iON RIO portal (Following the steps from the above Link).
Also, for any confusion or doubts please feel free to reach out to our team at - 8448440710
or reach out to TCS Support via rio.support@tcs.com
NOTE -
1) The Key won't be changed/replaced or refunded so we request you to go through the instructions page thoroughly then only proceed with the registrations.
2) While filling the form, if you are unable to find the name of your institute under the Institute drop-down section, we recommend you to choose PrepInsta as the institute and in the mentor's section you can fill
Mentor Name: - PrepInsta
Mentor's email id:- mentors@prepinsta.com
3) If you are unable to find your University name under the drop-down section then please fill in the following details:
State: Uttar Pradesh

ACHNOWLEDGEMENT

First I would like to **thank Mr. Laskhya Kumar Tiwari** , **Tata Consultancy Services ION (TCS ION)** for giving me the opportunity to do an internship with in the organization. I also would like all thepeople that worked along with , **Tata Consultancy Services ION (TCS ION) Bhopal** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasureand immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebtedto Director **Dr. Rajiv Arya** and Principal **Mr. Puran Gaur**, for the facilities provided to accomplishthis internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Nitesh Gupta,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Lakshya Kumar Tiwari

(0115CS191042)

ABSTRACT

The Company:

Tata Consultancy Services ION (TCS ION)is an independent software testing and Technicalservice provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focusedpartner globally with in-depth expertise in testing solutionswe provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Tata Consultancy Services ION (TCS ION)** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical supportby deploying industry's most reliable technology solutions for technical services like unit, functional,GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implementedusing PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the oneswho have been through the ―school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all,the interviews yielded 150 pages of transcripts. In one organization, two different projects were

interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of theorganizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development ofthe product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because ofthe immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript,

Text Editor : VSCode

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general- purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure yourweb server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve. The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in afew hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

5. CODING

Login page:-

```
<p> </p>
<p> </p>
<p> </p>
<?php
session_start();
?>
<script language="javascript">
function validate()
{
    if(document.stdform.regno.value=="")
    {
        alert("Please enter Register Number");
        document.stdform.regno.focus();
        return false;
    }
    else  if(document.stdform.password.value=="")
    {
        alert("Please enter password ");
        document.stdform.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}

</script>

<script language="javascript">
function validate1()
{
    if(document.empform.loginid.value=="")
    {
        alert("Please enter Login ID");
        document.empform.loginid.focus();
        return false;
    }
    else  if(document.empform.password.value=="")
    {
        alert("Please enter password");
        document.empform.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}
```

```
</script>
<?php
include("header.php");
include("dbconnection.php");
$dt = date("Y-m-d h:i:s");
if(isset($_SESSION["empid"]))
{
    header("Location:  dashboard.php");
}
if(isset($_SESSION["regno"]))
{
    header("Location:  studentpanel.php");
}
if(isset($_POST["submit"]))
{
    $sql = "SELECT * FROM students WHERE RegNo='$_POST[regno]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg = "<br><strong><font color='green'>Student logged in
successfully..</font></strong>";
        $_SESSION['regno']=$rs['RegNo'];
        header("Location:  studentpanel.php");
    }
    else
    {
        $msg = "<br><strong><font color='red'>Failed to login</font></strong>";
    }
}

if(isset($_POST["submit1"]))
{

$sql = "SELECT * FROM employees WHERE loginid='$_POST[loginid]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
            $sqlupd = "UPDATE employees SET lastlogin='$dt' where
loginid='$_POST[loginid]'";
            mysqli_query($con,$sqlupd);

        $rs = mysqli_fetch_array($result);
        $msg1 = "<br><strong><font color='green'>Employee logged in
successfully..</font></strong>";
        echo $_SESSION['empid']=$rs['empid'];
        header("Location: dashboard.php");
    }
    else
    {
        $msg1 = "<br><strong><font color='red'>Failed to login</font></strong>";
    }
```

```
}

?>
        <div class="row space30"> <!-- row 1 begins -->

            <div class="col-md-6">
            <h2>Student Login</h2>
                <p>Please enter registration Number and password to login..<?php
                global $msg;
                echo $msg; ?></p>

                <form role="form" name="stdform" method="post" action=""
onsubmit="return validate()">
                  <div class="form-group">
                    <label for="name">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration number">
                  </div>
                  <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                  <input type="submit" name="submit" value="Sign In" class="btn btn-
default">
                </form>
            </div>

            <div class="col-md-6">
                <h2>Employee Login Panel</h2>
                <p>Please enter Login ID and password<?php
                global $msg1;
                echo $msg1; ?>.</p>

                <form name="empform" role="form" method="post" action=""
onsubmit="return validate1()">
                  <div class="form-group">
                    <label for="name">Login ID:</label>
                    <input name="loginid" type="text" class="form-control" id="loginid"
placeholder="Enter your Login ID">
                  </div>
                   <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                   <input type="submit" name="submit1" value="Sign In" class="btn btn-
default">
                </form>

           </div>

        </div> <!-- /row 1 -->
    <?php
```

```
    include("footer.php");
    ?>
```

```
<?php
session_start();
$dttim = date("Y-m-d h:i:s");
?>

<script language="javascript">
function validate1()
{
    if(document.form1.regno.value=="")
    {
        alert("Please enter Register Numbe");
        document.form1.regno.focus();
        return false;
    }
    else  if(document.form1.password.value=="")
    {
        alert("Please enter password ");
        document.form1.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}

</script>

<script language="javascript">
function validate2()
{
    if(document.form2.loginid.value=="")
    {
        alert("Please enter Login ID");
        document.form2.loginid.focus();
        return false;
    }
    else  if(document.form2.password.value=="")
    {
        alert("Please enter password");
        document.form2.password.focus();
        return false;
    }
    else
    {
        return true;
    }
}
```

```
</script>
```

```
<script language="javascript">
function validate3()
{

        if(document.form3.fname.value=="")
    {
        alert("Please enter First Name");
        document.form3.fname.focus();
        return false;
    }
    else if(document.form3.regno.value =="")
    {
        alert("Please enter Register Number");
        document.form3.regno.focus();
        return false;
    }
    else if(isNaN(document.form3.regno.value) ==true)
    {
        alert("Please enter numerical value in Registration Number");
        document.form3.regno.focus();
        return false;
    }
    else if(document.form3.newpassword.value =="")
    {
        alert("Password Should not be empty..");
        document.form3.newpassword.focus();
        return false;
    }
    else if(document.form3.newpassword.value.length < 6)
    {
        alert("Password must contain atleast 6 charecters");
        document.form3.newpassword.focus();
        return false;
    }
    else  if(document.form3.newpassword.value!=  document.form3.confirmpassword.value)
    {
        alert("Password and confirm password not matching");
        document.form3.newpassword.focus();
        return false;
    }
    else  if(document.form3.course.value=="Select")
    {
        alert("Please enter course");
        return false;
    }

    else
    {
        return true;
    }


}
</script>
```

```php
<?php
include("dbconnection.php");
if(isset($_SESSION["empid"]))
{
    header("Location:  dashboard.php");
}
if(isset($_SESSION["regno"]))
{
    header("Location: studentpanel.php");
}
if(isset($_POST["submit2"]))
{
    $sql = "SELECT * FROM students WHERE RegNo='$_POST[regno]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg = "<br><strong><h3><font color='green'>Student logged in
successfully..</font></h3></strong>";
        $_SESSION['regno']=$rs["RegNo"];
        header("Location:  studentpanel.php");
    }
    else
    {
        $msg = "<br><strong><h3><font color='red'>Failed to login</font></h3></strong>";
    }
}

if(isset($_POST["submit1"]))
{

$sql = "SELECT * FROM employees WHERE loginid='$_POST[loginid]' AND
password='$_POST[password]' AND Status='Enabled'";
    $result = mysqli_query($con,$sql);
    if(mysqli_num_rows($result) == 1)
    {
        $rs = mysqli_fetch_array($result);
        $msg1 = "<br><strong><font color='green'><h3>Employee logged in
successfully..</h3></font></strong>";
        echo  $_SESSION['empid']=$rs["empid"];
        $_SESSION['logintype']=$rs["logintype"];
        $_SESSION['lastlogin'] = $rs["lastlogin"];

        mysqli_query($con,"UPDATE employees SET lastlogin='$dttim' where
loginid='$_POST[loginid]'");

        header("Location:  dashboard.php");
    }
    else
    {
        $msg1 = "<br><strong><font color='red'><h3>Failed to
login</h3></font></strong>";
    }
```

```
}
global $setid;
if($_POST["setid"]==$_SESSION['setid'])
{
if(isset($_POST["submit"]))
{

$sqlins="INSERT into
students(FirstName,LastName,RegNo,Password,CourseId,Status)VALUES('$_POST[fname]','$_POS
T[lname]','$_POST[regno]','$_POST[newpassword]','$_POST[course]','Enabled')";
$sqlresult=mysqli_query($con,$sqlins);
if(!$sqlresult)
{
    $regresi=1;
    $regres = "<font color='red'><strong><h3>Failed to insert
records</h3></strong></font>". mysqli_error($con);
}
else
{
    $regresi=1;
    $regres = "<font color='green'><strong><h3>Registered
successfully</h3></strong></font>";
}
}
}
$_SESSION['setid']=rand();

include("header.php");
?>
        <div class="row space10"> <!-- row 1 begins -->

            <div class="col-sm-6 col-lg-4">

                <img src="images/login.jpg" alt="Image 3" class="img-responsive img-
rounded" />
              <h2>Student Login Panel</h2>
              <p><font color='blue'>Please enter registration Number and password to
login. ..</font><?php
             global $msg1;
              echo $msg1; ?></p>

              <form role="form" name="form1" method="post" action="" onsubmit="return
validate1()">
                  <div class="form-group">
                    <label for="name">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration number">
                  </div>
                <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                </div>
```

```
                <input name="submit2" type="submit" class="btn btn-default" id="submit2"
value="Sign In">
                </form>

                <a href="forgotpassword.php"> <strong>Forgot Password</strong> </a>
                  <hr />
                  <h2>Employee Login Panel</h2>
                <p><font color='blue'>Please enter Login ID and password ... </font><?php
global $msg1; echo $msg1; ?>.</p>

                <form name="form2" role="form" method="post" action="" onsubmit="return
validate2()">
                  <div class="form-group">
                    <label for="name">Login ID:</label>
                    <input name="loginid" type="text" class="form-control" id="loginid"
placeholder="Enter your Login ID">
                  </div>
                   <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="password" type="password" class="form-control"
id="password" placeholder="Enter password">
                  </div>
                   <input type="submit" name="submit1" value="Sign In" class="btn btn-
default">
                </form>

            </div>

          <div class="col-xs-12 col-sm-6 col-lg-8">
                <h2>THE CAREER GUIDANCE & INFORMATION CELL</h2>
              <p>The college has established the career guidance and information cell in
view of helping students to get useful and systematic guidance on careers open to them
in their respective field of study.The members of the Career Guidance Committee along
with the Co-ordinator of the Cell chalk out various enrichment programmes as well as
coduct coaching classes in order to train the students to answer various competitive
examinations.An attempt is made to hod campus recruitments for the benefit of those
students who are pursuing professional and vocational courses of study. </p>

 <h2>Sign Up</h2>

        <?php
        global $regresi;
                if($regresi == 1)
                {
                echo "<p><font color='green'><h2>Registered
succesfully. ..</h2></font></p>";
                }
                else
                {
                echo "<p><font color='blue'><h2>Please enter following
details.....</h2></font></p>";
                }
        ?>
```

```
                <form name="form3" role="form" method="post" action="" onsubmit="return
validate3()">
                  <div class="form-group">
                  <input type="hidden" name="setid" value="<?php echo
$_SESSION['setid']; ?>" />

                    <label for="fname">First Name.:</label>
                    <input name="fname" type="text" class="form-control" id="fname"
placeholder="Enter First name">
                  </div>
                  <div class="form-group">
                    <label for="fname">Last name.:</label>
                    <input name="lname" type="text" class="form-control" id="lname"
placeholder="Enter Last name">
                  </div>
                  <div class="form-group">
                    <label for="fname">Registration No.:</label>
                    <input name="regno" type="text" class="form-control" id="regno"
placeholder="Enter your Registration Number">
                  </div>
                  <div class="form-group">
                    <label for="email">Password:</label>
                    <input name="newpassword" type="password" class="form-control"
id="newpassword" placeholder="New password">
                  </div>
                  <div class="form-group">
                    <label for="subject">Confirm Password:</label>
                    <input name="confirmpassword" type="password" class="form-control"
id="confirmpassword" placeholder="Confirm password">
                  </div>

                  <div class="form-group">
                    <label for="subject">Course:</label>
                    <select name="course"  class="form-control">
                    <option value="Select">Select course</option>
                    <?php
                    $sql="SELECT * FROM course WHERE status='Enabled'";
                    $resultquery = mysqli_query($con,$sql);
                    while($rsrec = mysqli_fetch_array($resultquery))
                    {
                        echo "<option value='$rsrec[CourseId]'>$rsrec[CourseName] |
Course code: $rsrec[coursecode]</option>";
                    }
                    ?>
                    </select>
                  </div>
                  <div class="checkbox">
                    <label>
                      <input name="newuser" type="checkbox" id="newuser" value="new"> I
am new user.
                    </label>
                  </div>
```

```
                <input name="submit" type="submit" class="btn btn-default" id="submit"
value="Register here" onclick="if(!this.form.newuser.checked){alert('You must Select
New user option.');return false}" >
                </form>


 </div>

        </div> <!-- /row 1 -->

        <div class="row space10"> <!-- row 2 begins -->


        </div> <!-- /row 2 -->
<?php
include("footer.php");
?>
```

Dashboard :-

```
<?php
session_start();
include("dbconnection.php");
include("header.php");
?>
        <div class="row space10"> <!-- row 1 begins -->

  <?php
  include("adminsidebar.php");
  ?>

          <div class="col-xs-12 col-sm-6 col-lg-9">
                <h2>Dashboard</h2>
                <hr />
                <div class="col-md-4">
              <h4><b>Employees</b></h4>
                <img src="images/employees.jpg" alt="Image 1" width="204"
height="120"  class="img-responsive img-rounded img_left"  />
                <h4>Employees:-
<?php
$sql = "SELECT * FROM employees where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
                </h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Companies</b></h4>
                <img src="images/companies.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Companies:-
```

```
                <?php
$sql = "SELECT * FROM companies where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
              </h4>  <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Course</b></h4>
                <img src="images/course.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Course:-
                  <?php
$sql = "SELECT * FROM course where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Jobs</b></h4>
              <img src="images/jobs-icon.jpg" alt="Image 1 "width="204" height="120"
class="img-responsive img-rounded img_left" />
              <h4>Jobs Published:-
                <?php
$sql = "SELECT * FROM jobs where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Students</b></h4>
              <img src="images/clients.png" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
              <h4>Students:-
                <?php
$sql = "SELECT * FROM students where status='Enabled'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
        </h4>        <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Training  Program</b></h4>
                <img src="images/jde_training_services_img.jpg" alt="Image 1"
width="204" height="120" class="img-responsive img-rounded img_left" />
                <h4>Training Program:-
                  <?php
$sql = "SELECT * FROM trainingprogram where status='Enabled'";
```

```
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Selected Candidates</b></h4>
                <img src="images/selectedcandidates.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Selected Candidates:-
                  <?php
$sql = "SELECT * FROM selectedcandidate";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Current Jobs</b></h4>
                <img src="images/banner_2.jpg" alt="Image 1" width="204" height="120"
class="img-responsive img-rounded img_left" />
                <h4>Active Jobs:-
                  <?php
                  $dt= date("Y-m-d");
$sql = "SELECT * FROM jobs where status='Enabled' AND InterviewDate >= '$dt'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?></h4>
                <hr />
            </div>

                        <div class="col-md-4">
              <h4><b>Current Training Program</b></h4>
                <img src="images/currenttrainingprogram.jpg" alt="Image 1" width="204"
height="120" class="img-responsive img-rounded img_left" />
                <h4>Active Training Programs :-
                <?php
                  $dt= date("Y-m-d");
$sql = "SELECT * FROM trainingprogram where status='Enabled' AND TPDatetime >= '$dt'";
$restraining = mysqli_query($con,$sql);
echo mysqli_num_rows($restraining);
?>
                </h4>
                <hr />
            </div>

          </div>


        </div> <!-- /row 1 -->

        <div class="row space10"> <!-- row 2 begins -->
```

```
        </div> <!-- /row 2 -->
<?php
include("footer.php");
?>
```

6. SCREENSHOTS






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Selected candidates
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Current Training Program
Active Training Programs :- 1


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View training program
Add student
View Students
Add Jobs
View Jobs
Job applicants
Training program applicants
Selected candidates
View Selected candidates
Log out
Edit student profile
Course
Select
Registration No.
Password
Confirm Password
First Name
Last Name
Image
Choose File
No file chosen
DOB
dd-mm-yyyy
Address
City
State
Select
Country
India
E Mail ID
admin
Contact No.
Mobile No.
Year of Passing
Select
Status
Select
Submit

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

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4. Larry Ullman, ―PHP and MySQL for Dynamic Web Sites‖, 4th edition, Pearson India publications.

Weblinks

To learn about the software required to use, we used, www.wikipidea.com

2. For more examples for learning, we referred, www.tutorialpoint.com.

3. For learning the PHP and MySQL integration, we referred,

www.w3schools.com

AS

INTERNSHIP REPORT

A report submitted in partial fulfilment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE AND ENGINEERING

BY

Mr. Manish Kumar Kamat

Enrollment No. (0115CE191016)

Under Supervision of

Mrs. Rachita Tiwari

Cybrom Technology Private Limited , Bhopal M.P.

(Duration: 01 July, 2022 to 30 Jan, 2023)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL, M.P

SESSION Jan-Jun 2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Mr. Manish Kumar Kamat (0115CE191016)**is work done by him and submitted during Jan – Jun 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Cybrom Technology Private Limited Bhopal M.P.**

Internship Coordinator

Department of CSE
Prof. **Anurag Shrivastava**
Computer science & Engineering NIIST,Bhopal

ACHNOWLEDGEMENT

First I would like to thank Mr. Manish Kumar Kamat, **Cybrom Technology Private Limited Bhopal** for giving me the opportunity to do an internship with in the organization. I also would like all thepeople that worked along with , **Cybrom technology Private Limited Bhopal** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasureand immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebtedto Director **Dr. Rajiv Arya** and Principal **Dr. Puran Gaur**, for the facilities provided to accomplishthis internship. I would like to thank my Head of the Department **Prof. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Anurag Shrivastava,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Manish Kumar Kamat

(0115CE191016)

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Internship Offer Letter

Dear Manish,

Cybrom Technology Pvt. Ltd. is pleased to offer you an Educational Internship Opportunity as an Intern. You will report directly to Ms Divya Jain. This position is located in Bhopal, MP.

You will be receiving academic credit for this position.

For this position, your major duties will include include configure, implement, and deploy systems and take care of websites. Your schedule will be approximately 7 hours per day from Monday to Saturday beginning 01/07/22 to 30/01/23..

Congratulation and welcome to the team

Sincerely

Authorized Signatory

Cybrom Technology Pvt. Ltd. Bhopal

ABSTRACT

The Company:

, **Cybrom Technology Private Limited Bhopal** is an independent software testing and Technicalservice provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focusedpartner globally with in-depth expertise in testing solutionswe provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Cybrom Technology Private Limited Bhopal** understands this gap and bridges it with its best in class testing and technical services. , **Cybrom Technology Private Limited Bhopal** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical supportby deploying industry's most reliable technology solutions for technical services like unit, functional,GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implementedusing PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the oneswho have been through the ―school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Login page
2. Registration page
3. Admin page
4. Student homepage
5. Employee homepage

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all,the interviews yielded 150 pages of transcripts. In one organization, two different projects were

interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of theorganizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development ofthe product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because ofthe immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, Pyhton,

JavaScript.

Text Editor : VSCode,SublimeText

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM

Hard Disk : 500gb

4. TECHNOLOGY

4.1 PYTHON

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

Often, programmers fall in love with Python because of the increased productivity it provides. Since there is no compilation step, the edit-test-debug cycle is incredibly fast. Debugging Python programs is easy: a bug or bad input will never cause a segmentation fault. Instead, when the interpreter discovers an error, it raises an exception. When the program doesn't catch the exception, the interpreter prints a stack trace. A source level debugger allows inspection of local and global variables, evaluation of arbitrary expressions, setting breakpoints, stepping through the code a line at a time, and so on. The debugger is written in Python itself, testifying to Python's introspective power. On the other hand, often the quickest way to debug a program is to add a few print statements to the source: the fast edit-test-debug cycle makes this simple approach very effective.

Django is a free and open-source, Python-based web framework that follows the model–template–views architectural pattern. It is maintained by the Django Software Foundation, an independent organization established in the US as a 501 non-profit.

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4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

5. CODING

Python file

```
from ast import Pass
import email
from reprlib import recursive_repr
from unicodedata import name
from django.shortcuts import redirect, render
from django.http import HttpResponse
from.models import Faculty, Student


def home(req):
   return render(req,"hom.html")


def register(req):
   return render(req,"regg.html")


def login(req):
   return render(req,"logg.html")


def about(req):
   return render(req,"about.html")


def faculty(req):
   return render(req,"faculty.html")


def regTask(req):
 role=req.POST.get('role')
 if role=="Student":
   First_Name=req.POST.get('fname')
   Last_Name=req.POST.get('lname')
   Father_Name=req.POST.get('faname')
   Email=req.POST.get('email')
```

```
    Password=req.POST.get('pass1')
     Mobile=req.POST.get('mobile')
     Gender=req.POST.get('n1')
     DOB=req.POST.get('dob')

     ob=Student()
     ob.First_Name=First_Name
     ob.Last_Name=Last_Name
     ob.Father_Name=Father_Name
     ob.Email=Email
     ob.Password=Password
     ob.Mobile=Mobile
     ob.Gender=Gender
     ob.DOB=DOB
     ob.save()
     return redirect('/project1/login')

   elif role=="Faculty":
     First_Name=req.POST.get('fname')
     Last_Name=req.POST.get('lname')
     Father_Name=req.POST.get('faname')
     Email=req.POST.get('email')
     Password=req.POST.get('pass1')
     Mobile=req.POST.get('mobile')
     Gender=req.POST.get('n1')
     DOB=req.POST.get('dob')

     ob=Faculty()
     ob.First_Name=First_Name
     ob.Last_Name=Last_Name
     ob.Father_Name=Father_Name
     ob.Email=Email
     ob.Password=Password
```

```
 ob.Mobile=Mobile
   ob.Gender=Gender
   ob.DOB=DOB
   ob.save()
   return redirect('/project1/login')
 else:
    return HttpResponse("Please enter correct role")

def logTask(req):
 global rec
 Email=req.POST.get('email')
 Password=req.POST.get('pass1')

 role=req.POST.get('role')
 if role=="Student":
   ob=Student()
   ob.Email=Email
   ob.Password=Password
   rec=Student.objects.filter(Email=Email, Password=Password)
   # rec=Student.objects.all()
   for i in rec:
      if (Email==Email and Password==Password):
         return redirect("/project1/db")
      else:
         return redirect('/project1/login')
   return redirect('/project1/login')

 elif role=="Faculty":
   ob=Faculty()
   ob.Email=Email
   ob.Password=Password
   rec=Faculty.objects.filter(Email=Email, Password=Password)
   # rec=Student.objects.all()
```

```
  for i in rec:
      if (Email==Email and Password==Password):
         return redirect("/project1/db")
      else:
         return redirect('/project1/login')
   return redirect('/project1/login')

 else:
    return HttpResponse("Please select your correct role")

def db(req):
   return render(req,"sh.html",{'rec':rec})

def profile(req):
   return render(req,"profile.html",{'rec':rec})




from django.db import models

class Student(models.Model):
    First_Name=models.CharField(max_length=30)
    Last_Name=models.CharField(max_length=30)
    Father_Name=models.CharField(max_length=30)
    Email=models.CharField(max_length=30)
    Password=models.CharField(max_length=30)
    Mobile=models.CharField(max_length=30)
    Gender=models.CharField(max_length=30)
    DOB=models.DateField(max_length=30)

    def __str__(self):
```

```
s=self.First_Name+self.Last_Name+self.Father_Name+self.Email+self.Password+self.Mo
bile+self.Gender+str(self.DOB)


 return s


class Faculty(models.Model):

    First_Name=models.CharField(max_length=30)

    Last_Name=models.CharField(max_length=30)

    Father_Name=models.CharField(max_length=30)

    Email=models.CharField(max_length=30)

    Password=models.CharField(max_length=30)

    Mobile=models.CharField(max_length=30)

    Gender=models.CharField(max_length=30)

    DOB=models.DateField(max_length=30)




    def __str__(self):


s=self.First_Name+self.Last_Name+self.Father_Name+self.Email+self.Password+self.Mo
bile+self.Gender+str(self.DOB)

 return s
```

```
  from django.urls import path
from.import views
urlpatterns=[
    path('',views.home),
    path('register',views.register),
    path('login',views.login),
    path('regTask',views.regTask),
    path('logTask',views.logTask),
    path("db",views.db),
    path('profile',views.profile),
    path('about',views.about),
    path('faculty',views.faculty
```

HTML file

```
{% load static %}
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>my websites</title>
  <link rel="stylesheet" type="text/css" href="{% static 'css/bootstrap.css' %}">
  <script type="text/javascript" src="{% static 'js/bootstrap.js' %}"></script>

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.min.css">
  <link rel="stylesheet" type="text/css" href="{% static 'hom.css' %}">

</head>

<body>
  <!-- shadow -->
  <div class="shadow-sm bg-primary rounded" id="shadow">
    <p class="p-2" id="text"><i class="fa fa-phone text-warning" aria-hidden="true"></i> 0755-4085500 |
      <i class="" id="" aria-hidden="true"></i> Department Of Computer Science & Engineering |
      <a class="log" href="/project1/login">Login</a>
    </p>
  </div>

  <!-- navbar -->

  <div class="container-fluid sticky-top">
    <nav class="navbar navbar-expand-lg bg-light">
      <div class="container menubg">
        <a class="navbar-brand" href="#">
          <img src="{% static 'images/logo1.png' %}" alt="Logo" width="250" height="90">

        </a>
        <ul class="nav justify-content-center">

          <li class="nav-item dropdown">
            <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
              ABOUT
            </a>
            <ul class="dropdown-menu sub-menu-1">
              <li><a class="dropdown-item" href="/project1/about">About</a></li>
              <li><a class="dropdown-item" href="#">Message From The HOD</a></li>
              <li><a class="dropdown-item" href="#">RECOGNITION & ACHIEVEMENTS</a></li>
            </ul>
          </li>

          <li class="nav-item dropdown">
            <a class="nav-link" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
              ACTIVITIES
            </a>
            <ul class="dropdown-menu sub-menu-1">
              <li><a class="dropdown-item" href="#">Students Clubs</a></li>
              <li><a class="dropdown-item" href="#">Course Outcomes</a></li>
```

```
    <li><a class="dropdown-item" href="#">Laboratory</a></li>


{% load static %}
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>my websites</title>
  <link rel="stylesheet" type="text/css" href="{% static 'css/bootstrap.css' %}">
  <script type="text/javascript" src="{% static 'js/bootstrap.js' %}"></script>

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.min.css">
  <link rel="stylesheet" type="text/css" href="{% static 'hom.css' %}">

</head>

<body>
  <!-- shadow -->
  <div class="shadow-sm bg-primary rounded" id="shadow">
    <p class="p-2" id="text"><i class="fa fa-phone text-warning" aria-hidden="true"></i> 0755-4085500 |
      <i class="" id="" aria-hidden="true"></i> Department Of Computer Science & Engineering |
      <a class="log" href="/project1/login">Login</a>
    </p>
  </div>

  <!-- navbar -->

  <div class="container-fluid sticky-top">
    <nav class="navbar navbar-expand-lg bg-light">
      <div class="container menubg">
        <a class="navbar-brand" href="#">
          <img src="{% static 'images/logo1.png' %}" alt="Logo" width="250" height="90">

        </a>
        <ul class="nav justify-content-center">

          <li class="nav-item dropdown">
            <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
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              <li><a class="dropdown-item" href="#">Message From The HOD</a></li>
              <li><a class="dropdown-item" href="#">RECOGNITION & ACHIEVEMENTS</a></li>
            </ul>
          </li>

          <li class="nav-item dropdown">
            <a class="nav-link" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
              ACTIVITIES
            </a>
            <ul class="dropdown-menu sub-menu-1">
              <li><a class="dropdown-item" href="#">Students Clubs</a></li>
              <li><a class="dropdown-item" href="#">Course Outcomes</a></li>
              <li><a class="dropdown-item" href="#">Laboratory</a></li>
```

```
      </ul>


    </li>
     <li class="nav-item dropdown">
      <a class="nav-link" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
       ACADEMICS
      </a>
      <ul class="dropdown-menu sub-menu-1">
       <li><a class="dropdown-item" href="#">Academic Programs</a></li>
       <li><a class="dropdown-item" href="#">Academic Calendar</a></li>
       <li><a class="dropdown-item menu" href="#">Scheme</a></li>
     </li>
     <li><a class="dropdown-item" href="#">Syllabus</a></li>
    </ul>
    </li>
    <li class="nav-item dropdown">
     <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
      PLACEMENTS
     </a>
     <ul class="dropdown-menu sub-menu-1">
      <li><a class="dropdown-item" href="#">Our Recruitres</a></li>
      <li><a class="dropdown-item" href="#">Placed Students</a></li>
      <li><a class="dropdown-item" href="testimonial.html">Testimonial</a></li>
     </ul>
    </li>

    <li class="nav-item dropdown">
     <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
      PEOPLE
     </a>
     <ul class="dropdown-menu sub-menu-1">
      <li><a class="dropdown-item" href="/project1/faculty">Faculty</a></li>
      <li><a class="dropdown-item" href="#">Staff</a></li>
      <li><a class="dropdown-item" href="student.html">Students</a></li>
     </ul>
    </li>
    <li class="nav-item">
     <a class="nav-link" href="#">GALLERY</a>
    </li>
    <li class="nav-item">
     <a class="nav-link" href="#">CONTACT US</a>
    </li>
    </ul>
  </nav>
</div>

<!-- Animation bar -->

<div class="container-fluid">



  <div id="carouselExampleControls" class="carousel slide" data-bs-ride="carousel">
   <div class="carousel-inner">
    <div class="carousel-item active">
     <img src="{% static 'images/r55.jpg' %}" class="d-block w-100" alt="first slide" style="height:570px;">
    </div>
    <div class="carousel-item">
```

```
        <img src="{% static 'images/r2.jpg' %}" class="d-block w-100" alt="second slide"


style="height:570px;">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/r1.jpg' %}" class="d-block w-100" alt="third slide" style="height:570px;">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/cse s.jpg' %}" class="d-block w-100" alt="fourth slide"
style="height:570px;">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/r4.jpg' %}" class="d-block w-100" alt="fourth slide"
style="height:570px;">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/r6.jpeg' %}" class="d-block w-100" alt="fourth slide"
style="height:570px;">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/r7.jpeg' %}" class="d-block w-100" alt="fourth slide"
style="height:570px;">
      </div>
    </div>
    <button class="carousel-control-prev" type="button" data-bs-target="#carouselExampleControls"
      data-bs-slide="prev">
      <span class="carousel-control-prev-icon" aria-hidden="true"></span>
      <span class="visually-hidden">Previous</span>
    </button>
    <button class="carousel-control-next" type="button" data-bs-target="#carouselExampleControls"
      data-bs-slide="next">
      <span class="carousel-control-next-icon" aria-hidden="true"></span>
      <span class="visually-hidden-"></span>
    </button>
  </div>

 </div>



 <!-- card imagess -->

 <div class="container pt-3 ">
  <div class="card">
    <div class="row ">
      <div class="col ">
        <img src="{% static 'images/Chairman-sir.jpg' %}" class="img-thumbnail" alt="director sir"
          style="width: 300px; height: 300px;">
        <h4>D. Subhodh Singh</h4>
        <p>Chairman <b>NGI</b></p>
      </div>

      <div class="col">
        <img src="{% static 'images/rajeevsir.jpeg' %}" class="img-thumbnail" alt="director sir"
          style="width: 300px; height: 300px;">
        <h4>Dr. Rajeev Arya</h4>
        <p>Director <b>NIIST</b></p>
      </div>
```

```
  <div class="col">
        <img src="{% static 'images/puransir.jpeg' %}" class="img-thumbnail" alt="director sir" style="width:
300px; height:300px">
        <h4>Dr. Puran Gour</h4>
        <p>Vice Principal <b>NIIST</b></p>
       </div>

       <div class="col">
        <img src="{% static 'images/anurag.jpeg' %}" class="img-thumbnail" alt="director sir" style="width:
300px; height:300px">
        <h4>Prof. Anurag Shrivastva</h4>
        <p>H.O.D <b>CSE(NIIST)</b></p>
       </div>
     </div>
   </div>
 </div>

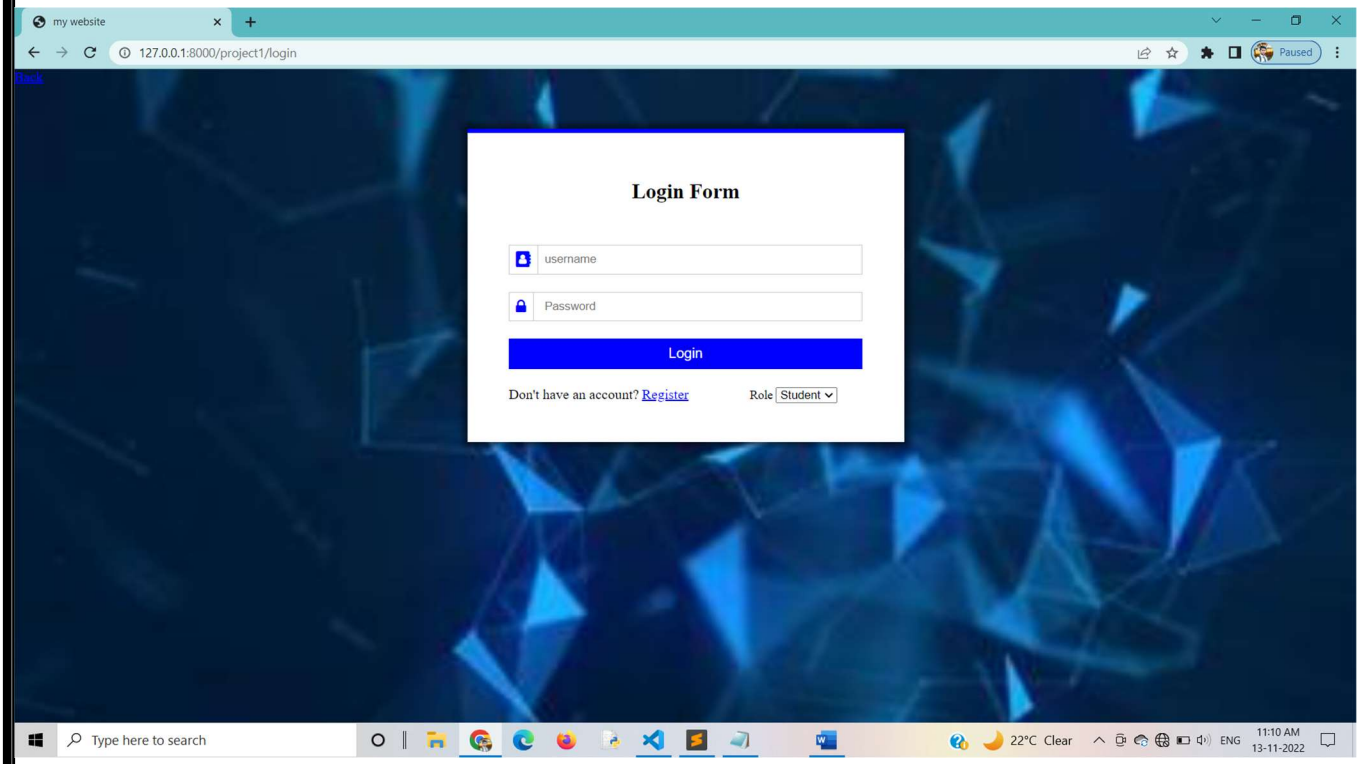
 <!-- End of card images -->

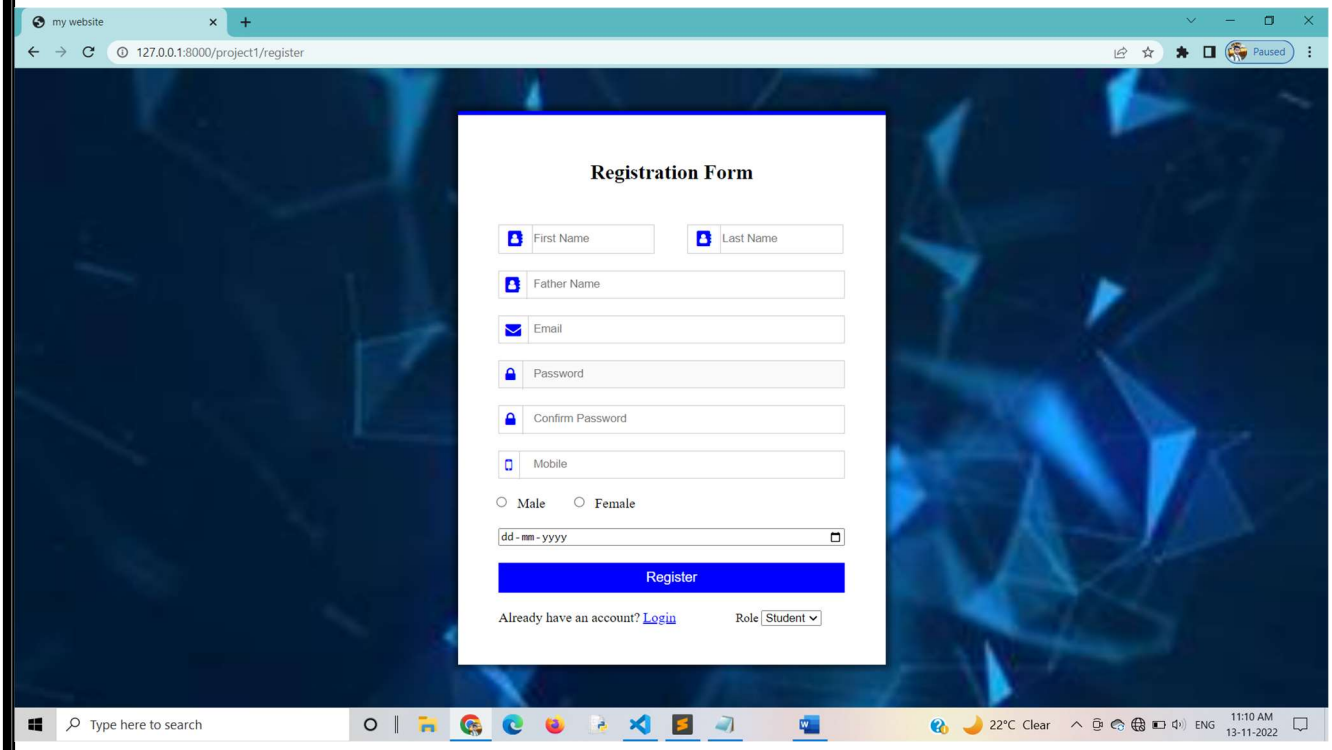

</div>
</body>

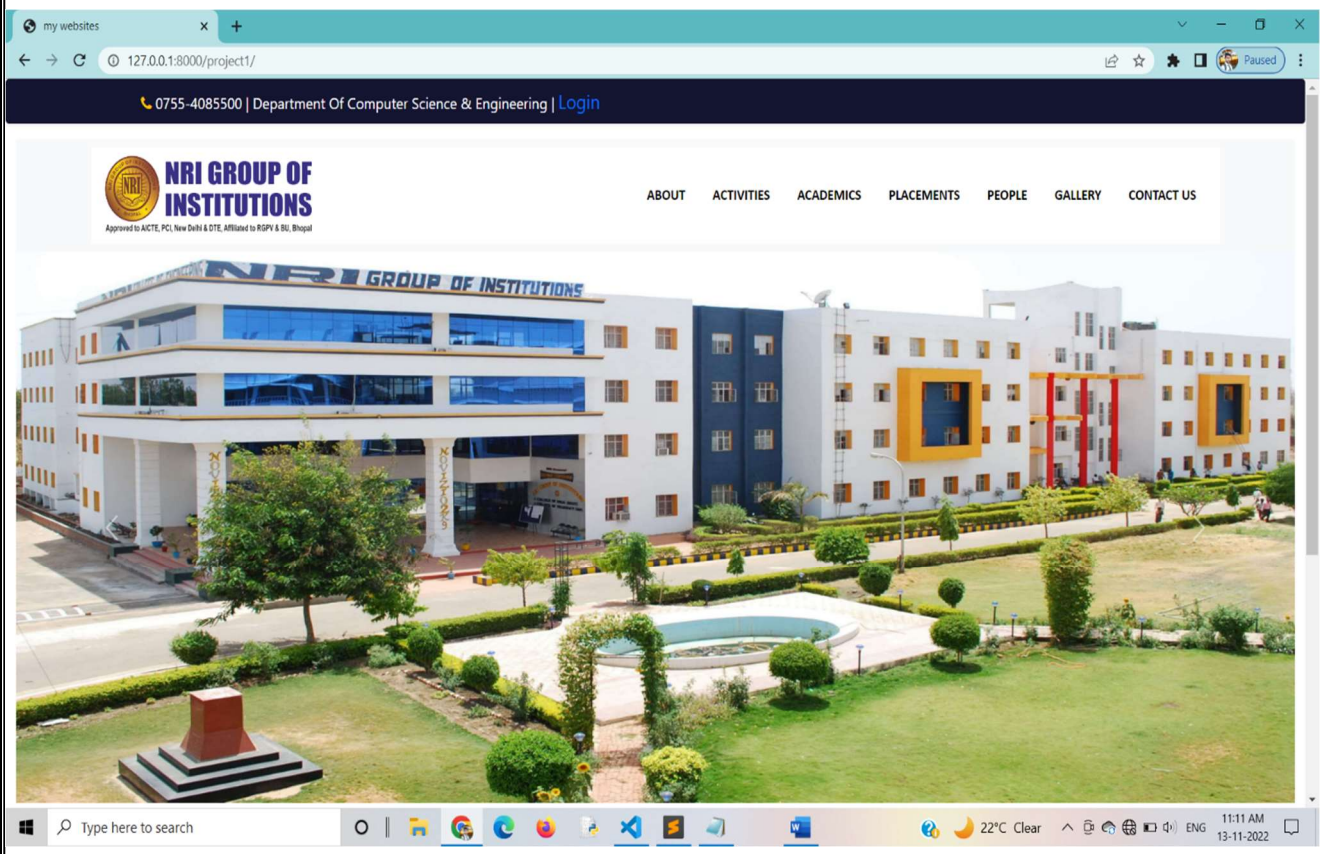
</html> </ul>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
            ACADEMICS
          </a>
          <ul class="dropdown-menu sub-menu-1">
            <li><a class="dropdown-item" href="#">Academic Programs</a></li>
            <li><a class="dropdown-item" href="#">Academic Calendar</a></li>
            <li><a class="dropdown-item menu" href="#">Scheme</a></li>
        </li>
        <li><a class="dropdown-item" href="#">Syllabus</a></li>
       </ul>
       </li>
       <li class="nav-item dropdown">
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          <li><a class="dropdown-item" href="testimonial.html">Testimonial</a></li>
        </ul>
       </li>

       <li class="nav-item dropdown">
        <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
          PEOPLE
        </a>
        <ul class="dropdown-menu sub-menu-1">
          <li><a class="dropdown-item" href="/project1/faculty">Faculty</a></li>
          <li><a class="dropdown-item" href="#">Staff</a></li>
```

6. SCRENSHOT


my website
127.0.0.1:8000/project1/login
Paused
Back
Login Form
username
Password
Login
Don't have an account? Register
Role Student
Type here to search
22°C Clear
ENG
11:10 AM
13-11-2022


my website
127.0.0.1:8000/project1/register
Paused
Registration Form
First Name
Last Name
Father Name
Email
Password
Confirm Password
Mobile
Male
Female
dd-mm-yyyy
Register
Already have an account? Login
Role Student
Type here to search
22°C Clear
ENG
11:10 AM
13-11-2022


my websites
127.0.0.1:8000/project1/
Paused
0755-4085500 | Department Of Computer Science & Engineering | Login
NRI GROUP OF INSTITUTIONS
Approved to AICTE, PCI, New Delhi & DTE, Affiliated to RGPV & BU, Bhopal
ABOUT
ACTIVITIES
ACADEMICS
PLACEMENTS
PEOPLE
GALLERY
CONTACT US
NRI GROUP OF INSTITUTIONS
Type here to search
22°C Clear
ENG
11:11 AM
13-11-2022

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

8. BIBLIOGRAPHY

References

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2. Vikram Vaswani, ―MySQL(TM): The Complete Reference‖, 4th edition, Mc Graw Hill Education publications.
3. Luke Welling, ―Python and MySQL Web Development Book‖, 5th edition, Pearson Indiapublications.
4. Larry Ullman, ―Python and MySQL for Dynamic Web Sites‖, 4th edition, Pearson Indiapublications.

Weblinks

To learn about the software required to use, we used, www.wikipidea.com

2. For more examples for learning, we referred, www.tutorialpoint.com.

3. For learning the Python and MySQL integration, we referred,

www.w3schools.com

INTERNSHIP REPORT

Areportsubmittedinpartialfulfilmentoftherequirementsfor theAwardofDegreeof

BACHELOR OF TECHNOLOGY
IN
COMPUTERSCIENCEENGINEERING

BY

NIKITA SHARMA

EnrollmentNo.(0511CS191005)

UnderSupervisionof

xcitEducation foundations through internshala

CERTIFICATE NUMBER:23AE68F6-CB6D-11FE-D78E05B9E58B

(DATE OF CERTIFICATION-14 March 2023)



DEPARTMENT OFCOMPUTER SCIENCE& ENGINEERING

NRIINSTITUTE OF RESEARCH & TECHNOLOGY BHOPAL, M.P

SESSION 2019-2023


INTERNSHALA
Certificate of Selection
Nikita Sharma
from NRI Institute of Research and Technology has successfully secured Subject Matter Expert Python internship at XcitEducation Foundations through Internshala.
Sarvesh Agrawal
Founder & CEO, Internshala
Date of certification: September 17, 2022



Full Stack Developer Job

Response unlikely

247 Applicants Applied on 23 Dec' 22

Review application Missing skill

Tare Zameen Foundation

Fundraising Internship

Hired

1074 Applicants Applied on 11 Nov' 22

View certificate

Review application Ace this internship

XcitEducation Foundations

Subject Matter Expert Python Internship

Hired

96 Applicants Applied on 31 Aug' 22

View certificate

Review application Ace this internship

XcitEducation Foundations

NRIINSTITUTEOFRESEARCH&TECHNOLOGY

BHOPAL

DEPARTMENTOFCOMPUTERSCIENCEANDENGINEERING



CERTIFICATE

Thisistocertifythatthe**"Internshipreport"**submittedby**Miss. Nikita sharma(0511CS191005)** is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of therequirementsfor the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AN DENGINEERING** at Corizo company with the null classes

InternshipCoordinator

HOD Department of CSE
Prof. Anurag Shrivastava
Computer science& Engineer

ACHNOWLEDGEMENT

First of i would like to thank Miss Nikita Sharma from XcitEducation foundations through internshala for giving me the opportunity too an internship with in the organization .I also would like all the people that worked along with xciteducation company with the null classes with their patience an do pennes s they created an enjoy able working environment .It is indeed with a great sense of pleasure and immensesense of gratitude that Iacknowled gethe help of the sein dividuals .I am highly indebted to Director **Dr . Rajiv Arya** and Principal **Mr. Puran Gaur**, for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for hisconstructive criticism throughout my internship. I would like to thank **Prof. Nitesh Gupta,** internshipcoordinatorDepartmentof CSE for their supportand advices to get andcomplete internship in abovesaidorganization.

I am extremely grateful to my department staff members and friends who helped me in successfulcompletionofthisinternship.

NIKITA SHARMA

(0511CS191005)

ABSTRACT

TheCompany: XcitEducation founcations through internshala

Foundations is an software independent testing and Technical service provider company ,driven by industry expertsand thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the worldincludingsoftwareproducts.Asafocusedpartnergloballywithin-depthexpertiseintestingsolutionsweprovidefunctional,TestAutomation,ScriptlessTestAutomation,PerformanceTestingand,serving multiple industries, technical service provider. , **corizo with the null classes** understands this gapandbridges it with its bestin class testing and technical services. ,**TechSim+ The Symbol of Expertise Bhopal**leverages its extensive expertise in designing and deploying testautomationsolutionswithameasurablevalue.Wefocusonoptimizinginvestmentontechnicalsupportbydeployingindustry'smostreliabletechnologysolutionsfortechnicalserviceslikeunit,functional,GUIautomation,performance,security,technicalServiceprovider.

Programmersandopportunities:

The Institute combines pioneeringresearch with top class education.Aninnovative curriculum allowsthe student flexibility in selecting courses and projects. Students, even at the undergraduate level, get toparticipate in on-going research andtechnologydevelopment -an opportunity unprecedented inIndia.Asaresult,avibrantundergraduateprogrammerco-existswithastrongpostgraduateprogrammer.

Methodology:

Thisprojectistoprovideclassifiedsinformation.Thewebsitewillprovidedifferentkindsoffacilitiesto the user like career opportunities. The user should register to utilize the site. Each user will be givenUser Id and password. Using that Id and password user can enter in to the site and can put the details.Thosewhowanttoviewtheinformationtheycanwithoutregistration.Thisprojectisimplementedusing PHPasthefront-end and MySQLas back-end.

Keypartsofthereport:

The proposed system will make it easy for students to access the information they need. It will guidestudents through this process and provideaccessto verified sites that can help them.Thesystem willalso allow students to collectall the information they require andstore itin a manner that makesiteasytoaccess.Studentswillalsohaveaccesstousefulstudenttestimoniesandarticlesbycounsellors.

Benefitstothecompany /institutionthroughyourreport:

The Institute combinespioneering researchwith top class education. Aninnovative curriculum allowsthe student flexibility in selectingcourses and projects. Students, even at the undergraduatelevel,gettoparticipateinon-goingresearchandtechnologydevelopment-an opportunityunprecedentedinIndia.

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LearningObjectives/InternshipObjectives

- Internshipsaregenerallythoughtoftobereservedforcollegestudentslookingtogainexperiencein a particular field. However, a wide array of people can benefit from Training Internships in order toreceivereal worldexperienceanddeveloptheirskills.

- An objective for this position should emphasize the skills you already possess in the area and yourinterestinlearningmore

- Internships are utilized in a number of different career fields, including architecture, engineering,healthcare, economics,advertisingandmany more.

- Someinternshipisusedtoallowindividualstoperformscientificresearchwhileothersarespecificallydesigned toallowpeopletogainfirst-handexperienceworking.

- Utilizinginternshipsisagreatwaytobuildyourresumeanddevelopskillsthatcanbeemphasizedinyourresume forfuturejobs.WhenyouareapplyingforaTrainingInternship,makesure tohighlightanyspecial skillsortalentsthat canmake you standapart fromtherestof theapplicantssothatyouhaveanimprovedchanceoflandingtheposition.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword.OnThe onehanditcanbe viewedasa productivityandqualityenhancer, while ontheother hand,Itcanbeviewed as a mechanismto control,routinize, andde-skill work. These views both Have elements oftruth,butwithappropriatedesignandadoptionconsiderations,webelieveThatitispossibletoenhance the positive elementswhile reducingthe negative ones.Thisreport looksattheissuesthathavearisenfortheearlyadoptersofprocessautomation.Thesepeopleareinnovators,the oneswho have been through the ─school of hard Knocks, taken the brunt of an immature technology, andsufferedfromthefactthattherearefewexperiencedpeopletoguidethem.Someoftheprojectswesaw succeeded, some failed, But few found the going easy. This technology is not for the faint ofheart—at least not yet. However, we hope, through this report, to document experiences and lessonslearned. We Hope that we have extracted practical insights to provide insights to the developers ofprocessAutomationtoolsandguidancetothosewhowishtoautomatetheirprocesses.

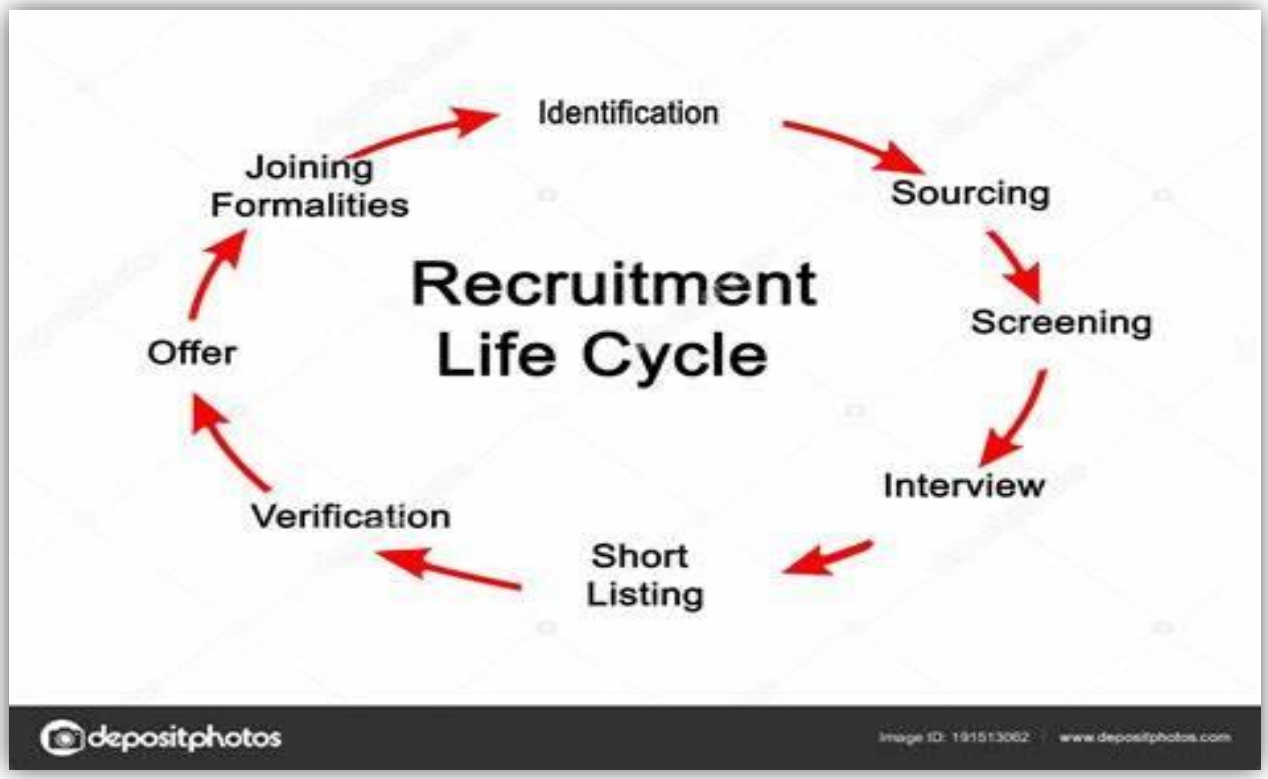
Thesegeneralobjectiveshavebeenmetthroughaseriesofactivitiesthatinclude in-depthinterviewsfollowedbyaquestionnairesurveyandaworkshop.Thespecificobjectivesoftheseactivitiesare asfollows:

- Theinterviewsareaimedatgatheringpractitionerexperiencesinarelativelyunstructured Way, to identify what individuals believe are the important issues in the adoption of software processautomation,andtoestablishabasisforthemorestructuredquestionnairesurvey.Someoftheinterviewees werecontactedaboutayearaftertheinitialinterviews.

- Thequestionnairesurveyassessesawidercross-sectionofthoseinvolvedwithprocessautomationand includes individuals outside the software community. Because the questionnaire respondents arefollowing a standard format, the data in this phase of the study will be analysed in a more quantitativefashion.
- Finally, the workshop was aimed at identifyingsuccess strategiesfor the introductionof Softwareautomation. The workshop brought together a widely diverse group of individuals with xperience inresearch and development, adoption, management and end use of process automation, and to raiseawarenessofcritical issues acrossthesecommunities.
    - AsdescribedbyChristie[Christie96],thespecificobjectivesofthestudyareto
    - Identifythetechnical,social,andorganizationalinhibitorstotheadoptionofprocessautomation:
    - Assesstheprevalenceandscopeofsoftwareprocessautomation.
    - Categorizethetechnologiesandpracticesthatarecurrentlybeingused.
    - Identifyeffectiveandineffectivetechnologiesandpractices.

- Developguidelinesforprocessautomationimplementers.
- Supportvendorsandresearchersindevelopingproductsmoreintunewithend-userneeds:
- Developguidelinesforresearchersandvendorstoimproveproducteffectiveness.
- Fostereffectivecommunicationsbetweenresearchers,vendors,developersandendusers.

Recruitmentlifecyclediagram:-



1.1MODULES:

1. Loginpage
2. Registrationpage
3. Adminpage

2. ANALYSIS

RequirementAnalysis:-

Themainobjectivesforundertakingthisprojectare:

- TounderstandtheinternalRecruitmentprocessinorganization.
- Toidentifyareaswheretherecanbescopeforimprovement.
- Togivesuitablerecommendationtostreamlinethehiringprocess.
- Todeveloppracticalknowledgewiththeoreticalaspects.
- Toknowabouttheimportanceofrecruitmentandselection.
- Tofindoutbetterprocessofrecruitment.
- Toknowabouttheroleofrecruiter.

Needforrecruitment:

Itmakespossibletochoosetherightpersonintherighttimeattherightplace.Italsomakesitpossibletoacquirethenumberandtypeofpeoplenecessarytoensurethecontinuedoperationoftheorganization.

Plannedneeds:-suchneedsarisefromchangesintheorganizationpolicies.

Anticipatedneeds:-
Itreferstothosemovementsinpersonnelwhichanorganizationcanpredictbystudyingtrendsininternalor externalneed.

Unexpectedneeds:-Suchneedarisesduetoillness,deathandresignation.

RecruitmentfollowsHRplanningandgoeshandinhandwithselectionprocessbywhichorganizationsevaluatethe suitabilityof candidates. Withsuccessfulrecruiting to createa sizeablepoolofcandidates,eventhe mostaccurateselectionsystemisoflittleuse.
Recruitingbeginswhenavacancyoccursandtherecruiterreceivesauthorizationtofillit.

Thenextstepiscarefulexaminationofskills,abilitiesandexperienceneededtoperformthejobsuccessfully.Otherstepsfollow:

- Creatinganapplicantpoolusinginternalorexternalmethods.
- Evaluatecandidateviaselection
- Convincethecandidate
- Andfinallymakeanoffer

Selection process is good but it should also be modified according to the requirements and should jobprofile sothatmain objective of selecting thecandidate couldbe achieved. Further from thissurveyIhope the organization will be benefited and with the help of the suggestions given the organization canimprove its functioning and the overall Recruitment and Selection Process in the organization and itsperformance willincrease.

TheInterviews

Thisreportis based uponinterviewswith individuals who are knowledgeable aboutandexperiencedwithprocessautomation.Weperformedaqualitativeanalysisoftheseinterviewstoarriveat thefindingsreportedhere.Thematerialinthissectioncloselyfollowsthatpresentedinanearlierreport.

TheInterviewees

Anextensivelistofcandidateswasidentifiedearlyon,includingend-userorganizations,commercialandin-housedevelopers,andresearchers.Ouroriginalgoalwastointerviewmostlyendusersofprocess automation. However, that was not to be. Because of the immaturity of the technology, weinteractedwith relativelyfewexperienced endusers of the technology. Mostof our interviewswerewithpeoplewhowereinvolvedindevelopingandimplementingprocess-centeredenvironments(PCEs).

Theseindividualscamefromawidevarietyoforganizationsincluding

• Avendorofamajorprocess-orientedconfigurationmanagement(CM)product

• FourDODsitesimplementingprocess-centeredenvironments(PCEs)

• TwoU.S.governmentcontractorswhoweredevelopingprocesstoolsandimplementingPCEs

• TwoFrenchgovernmentcontractorswhowereimplementingPCEs

• AFrenchbankthatisoperatingwithaPCE•Auniversitygroupwithstrongtiestoindustry

HowtheInterviewsWereConducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interviewsessions, two interviewers were present.Thenumber of interviewees ineachinterview rangedfromone to eight. All interviews were taped to ensure that the comments were recorded accurately. Theinterviewstookapproximately36hourswithanaveragelengthof2.4hoursperinterview.Allinall,theintervie wsyielded150pagesoftranscripts.Inoneorganization,twodifferentprojectswere interviewed.Withtwootherprojects,multipleinterviewswereconducted.

Astandardscriptsupportedeachinterview.Thisscriptprovidedaconsistentframeworkandensuredthatwewould havecomparableinformationfromeachoftheinterviews.Whilethequestionswereused to support the interviews and to ensure coverage, they were not followed mechanically; areas ofinterestwereoftenprobedindepth.Christieprovidesfurtherdetailsoftheinterviewformat[Christie96].

InterviewFindings

Theintervieweesrepresentedoneormoreautomationeffortsthat,looselyspeaking,canbeseenaspilotprojects.T heseprojectsrangedinsizefromfewerthan10tomorethan60people.

For purposes of discussion, the numbers cited include the personnel forwhom the automation wasintended, as well as the developers of the automation if they are part of the same organization. Typicalprojectsize wastoward thelowend.

Whilewemadenoattempttomeasureformallytheprocessmaturitylevelofthe organizations/projectsinterviewe d, some had previously undergone formal process assessmentsusingtheSEICapabilityMaturityModel(CMM).Theseprojectsrangedinmaturityfromlevel1(adh oc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at orbelow level 2). Other projects had not been assessed formally, but many characterized themselves ashaving a poorly defined set of software development processes. Two projects were attempting softwaredevelopmentactivities forthefirsttime.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only twowerefarenoughalongfortheautomationtobeconsideredinstitutionalized.Inonecase,theautomation was associated with a company that developed and distributed a configurationmanagementproduct.Thisproducthassignificantprocesscapabilitythatisusedtosupportfurtherd evelopmentofthe product. The other organization that effectively adopted PCE technology did so to support softwareproblemtracking.

Four pointsmay be made aboutthe interviewsandthe findings derivedfromthem.First,becauseofthe immaturity of the technology,we interviewed few peoplewhocouldbe consideredexperiencedendusersofthetechnology.Thegreatmajorityofintervieweeswereeitherdevelopersofp rocess-centered environments, developers of the process tools from which PCEs can be built, or managers ofdevelopmentprojects.Second,thefindingsnotonlysurfacedproblemsbutidentifiedpotentialsolutions to these problems. We hope that this information will be useful to organizations intending tobuildandusePCEs.Third,interviewees’experienceswerenotalwaysconsistent,andtheseinconsistenciesmay attimes bereflectedinthe report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much incommonwithadoptionissuesassociatedwithothertechnologyareas.Thefindingsfallintothree

majorcategories

- driversandinhibitors
- contributorstosuccess
- technologyissues

Inthefollowingdiscussions,wemakeheavyuseofquotes(indicatedinitalics)fromtheinterviews.

Amajorreasonforthisisthatinterviewees weresurprisinglyfrankingivingustheirviewsaboutprocessautomation andhowtheirorganizationswere dealingwithit.

3. SYSTEMREQUIREMENTSSPECIFICATIONS

Systemconfigurations:-

Thesoftwarerequirementspecificationcanproduceattheculminationoftheanalysistask.Thefunctionandperformanceallocatedtosoftwareaspartofsystemengineeringarerefinedbyestablished a complete information description, a detailed functional description, a representation ofsystem behavior, and indication of performance and design constrain, appropriate validate criteria, andotherinformation pertinenttorequirements.

Softwarerequirements:-

OperatingSystem:Windows

CodingLanguage:HTML,CSS, Python, Django,

JavaScript ,

TextEditor:VSCode

Database:MySQL.Packag

e:XAMPP.

HardwareRequirements:-

Processor:Intelcorei3Mem

ory:4GBRAMHardDisk:5

00gb

4. TECHNOLOGY

DJANGO

Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It's free and open source.

Ridiculously fast.

Django was designed to help developers take applications from concept to completion as quickly as possible.

Reassuringly secure.

Django takes security seriously and helps developers avoid many common security mistakes.

Exceedingly scalable.

Some of the busiest sites on the web leverage Django's ability to quickly and flexibly scale.

PYTHON

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation. Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured, object-oriented and functional programming.

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation. Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured, object-oriented and functional programming.

5. CODING

```
<?php
 session_start();
 // Redirect the user to login page if he is not logged in.
 if(!isset($_SESSION['loggedIn'])){
        header('Location: login.php');
        exit();
 }

 require_once('inc/config/constants.php');
 require_once('inc/config/db.php');
 require_once('inc/header.html');
?>
  <body>
<?php
 require 'inc/navigation.php';
?>
    <!-- Page Content -->
    <div class="container-fluid">
   <div class="row">
        <div class="col-lg-2">
        <h1 class="my-4"></h1>
              <div class="nav flex-column nav-pills" id="v-pills-tab"
role="tablist" aria-orientation="vertical">
                <a class="nav-link active" id="v-pills-item-tab" data-toggle="pill"
href="#v-pills-item" role="tab" aria-controls="v-pills-item" aria-
selected="true">Item</a>
                <a class="nav-link" id="v-pills-purchase-tab" data-toggle="pill"
href="#v-pills-purchase" role="tab" aria-controls="v-pills-purchase" aria-
selected="false">Purchase</a>
                <a class="nav-link" id="v-pills-vendor-tab" data-toggle="pill"
href="#v-pills-vendor" role="tab" aria-controls="v-pills-vendor" aria-
selected="false">Vendor</a>
                <a class="nav-link" id="v-pills-sale-tab" data-toggle="pill"
href="#v-pills-sale" role="tab" aria-controls="v-pills-sale" aria-
selected="false">Sale</a>
                <a class="nav-link" id="v-pills-customer-tab" data-toggle="pill"
href="#v-pills-customer" role="tab" aria-controls="v-pills-customer" aria-
selected="false">Customer</a>
                <a class="nav-link" id="v-pills-search-tab" data-toggle="pill"
href="#v-pills-search" role="tab" aria-controls="v-pills-search" aria-
selected="false">Search</a>
                <a class="nav-link" id="v-pills-reports-tab" data-toggle="pill"
href="#v-pills-reports" role="tab" aria-controls="v-pills-reports" aria-
selected="false">Reports</a>
              </div>
        </div>
         <div class="col-lg-10">
              <div class="tab-content" id="v-pills-tabContent">
                <div class="tab-pane fade show active" id="v-pills-item"
role="tabpanel" aria-labelledby="v-pills-item-tab">
```

```
                    <div class="card card-outline-secondary my-4">
                      <div class="card-header">Item Details</div>
                      <div class="card-body">
                           <ul class="nav nav-tabs" role="tablist">
                                 <li class="nav-item">
                                       <a class="nav-link active" data-
toggle="tab" href="#itemDetailsTab">Item</a>
                                 </li>
                                 <li class="nav-item">
                                       <a class="nav-link" data-toggle="tab"
href="#itemImageTab">Upload Image</a>
                                 </li>
                           </ul>

                           <!-- Tab panes for item details and image sections -->
                           <div class="tab-content">
                                 <div id="itemDetailsTab" class="container-fluid
tab-pane active">
                                       <br>
                                       <!-- Div to show the ajax message from
validations/db submission -->
                                       <div id="itemDetailsMessage"></div>
                                       <form>
                                         <div class="form-row">
                                              <div class="form-group col-md-3"
style="display:inline-block">
                                                <label
for="itemDetailsItemNumber">Item Number<span class="requiredIcon">*</span></label>
                                                <input type="text" class="form-
control" name="itemDetailsItemNumber" id="itemDetailsItemNumber" autocomplete="off">
                                                <div
id="itemDetailsItemNumberSuggestionsDiv" class="customListDivWidth"></div>
                                              </div>
                                              <div class="form-group col-md-3">
                                                <label
for="itemDetailsProductID">Product ID</label>
                                                <input class="form-control
invTooltip" type="number" readonly  id="itemDetailsProductID"
name="itemDetailsProductID" title="This will be auto-generated when you add a new
item">
                                              </div>
                                         </div>
                                         <div class="form-row">
                                                <div class="form-group col-md-6">
                                                     <label
for="itemDetailsItemName">Item Name<span class="requiredIcon">*</span></label>
                                                     <input type="text"
class="form-control" name="itemDetailsItemName" id="itemDetailsItemName"
autocomplete="off">
                                                     <div
id="itemDetailsItemNameSuggestionsDiv" class="customListDivWidth"></div>
                                                </div>
                                                <div class="form-group col-md-2">
                                                     <label
```

```
for="itemDetailsStatus">Status</label>
                                                    <select id="itemDetailsStatus"
name="itemDetailsStatus" class="form-control chosenSelect">
                                                        <?php
include('inc/statusList.html'); ?>
                                                    </select>
                                                </div>
                                            </div>
                                            <div class="form-row">
                                                <div class="form-group col-md-6"
style="display:inline-block">
                                                    <!-- <label
for="itemDetailsDescription">Description</label> -->
                                                    <textarea rows="4" class="form-
control" placeholder="Description" name="itemDetailsDescription"
id="itemDetailsDescription"></textarea>
                                                </div>
                                            </div>
                                            <div class="form-row">
                                                <div class="form-group col-md-3">
                                                    <label
for="itemDetailsDiscount">Discount %</label>
                                                    <input type="text" class="form-
control" value="0" name="itemDetailsDiscount" id="itemDetailsDiscount">
                                                </div>
                                                <div class="form-group col-md-3">
                                                    <label
for="itemDetailsQuantity">Quantity<span class="requiredIcon">*</span></label>
                                                    <input type="number" class="form-
control" value="0" name="itemDetailsQuantity" id="itemDetailsQuantity">
                                                </div>
                                                <div class="form-group col-md-3">
                                                    <label
for="itemDetailsUnitPrice">Unit Price<span class="requiredIcon">*</span></label>
                                                    <input type="text" class="form-
control" value="0" name="itemDetailsUnitPrice" id="itemDetailsUnitPrice">
                                                </div>
                                                <div class="form-group col-md-3">
                                                    <label
for="itemDetailsTotalStock">Total Stock</label>
                                                    <input type="text" class="form-
control" name="itemDetailsTotalStock" id="itemDetailsTotalStock" readonly>
                                                </div>
                                                <div class="form-group col-md-3">
                                                        <div
id="imageContainer"></div>
                                                </div>
                                            </div>
                                            <button type="button" id="addItem"
class="btn btn-success">Add Item</button>
                                            <button type="button"
id="updateItemDetailsButton" class="btn btn-primary">Update</button>
                                            <button type="button" id="deleteItem"
class="btn btn-danger">Delete</button>
```

```
                                        <button type="reset" class="btn"
id="itemClear">Clear</button>
                                    </form>
                                </div>
                                <div id="itemImageTab" class="container-fluid tab-
pane fade">
                                    <br>
                                    <div id="itemImageMessage"></div>
                                    <p>You can upload an image for a particular
item using this section.</p>
                                    <p>Please make sure the item is already
added to database before uploading the image.</p>
                                    <br>

                                    <form name="imageForm" id="imageForm"
method="post">
                                        <div class="form-row">
                                            <div class="form-group col-md-3"
style="display:inline-block">
                                                <label
for="itemImageItemNumber">Item Number<span class="requiredIcon">*</span></label>
                                                <input type="text" class="form-
control" name="itemImageItemNumber" id="itemImageItemNumber" autocomplete="off">
                                                <div
id="itemImageItemNumberSuggestionsDiv" class="customListDivWidth"></div>
                                            </div>
                                            <div class="form-group col-md-4">
                                                <label
for="itemImageItemName">Item Name</label>
                                                <input type="text"
class="form-control" name="itemImageItemName" id="itemImageItemName" readonly>
                                            </div>
                                        </div>
                                        <br>
                                        <div class="form-row">
                                            <div class="form-group col-md-7">
                                                <label
for="itemImageFile">Select Image ( <span class="blueText">jpg</span>, <span
class="blueText">jpeg</span>, <span class="blueText">gif</span>, <span
class="blueText">png</span> only )</label>
                                                <input type="file"
class="form-control-file btn btn-dark" id="itemImageFile" name="itemImageFile">
                                            </div>
                                        </div>
                                        <br>
                                        <button type="button"
id="updateImageButton" class="btn btn-primary">Upload Image</button>
                                        <button type="button"
id="deleteImageButton" class="btn btn-danger">Delete Image</button>
                                        <button type="reset"
class="btn">Clear</button>
                                    </form>
                                </div>
                            </div>
```

```
                    </div>
                  </div>
                </div>
                <div class="tab-pane fade" id="v-pills-purchase" role="tabpanel"
aria-labelledby="v-pills-purchase-tab">
                  <div class="card card-outline-secondary my-4">
                    <div class="card-header">Purchase Details</div>
                    <div class="card-body">
                      <div id="purchaseDetailsMessage"></div>
                      <form>
                        <div class="form-row">
                          <div class="form-group col-md-3">
                            <label for="purchaseDetailsItemNumber">Item
Number<span class="requiredIcon">*</span></label>
                            <input type="text" class="form-control"
id="purchaseDetailsItemNumber" name="purchaseDetailsItemNumber" autocomplete="off">
                            <div
id="purchaseDetailsItemNumberSuggestionsDiv" class="customListDivWidth"></div>
                          </div>
                          <div class="form-group col-md-3">
                            <label
for="purchaseDetailsPurchaseDate">Purchase Date<span
class="requiredIcon">*</span></label>
                            <input type="text" class="form-control
datepicker" id="purchaseDetailsPurchaseDate" name="purchaseDetailsPurchaseDate"
readonly value="2018-05-24">
                          </div>
                          <div class="form-group col-md-2">
                            <label for="purchaseDetailsPurchaseID">Purchase
ID</label>
                            <input type="text" class="form-control
invTooltip" id="purchaseDetailsPurchaseID" name="purchaseDetailsPurchaseID"
title="This will be auto-generated when you add a new record" autocomplete="off">
                            <div
id="purchaseDetailsPurchaseIDSuggestionsDiv" class="customListDivWidth"></div>
                          </div>
                        </div>
                        <div class="form-row">
                          <div class="form-group col-md-4">
                            <label for="purchaseDetailsItemName">Item
Name<span class="requiredIcon">*</span></label>
                            <input type="text" class="form-control
invTooltip" id="purchaseDetailsItemName" name="purchaseDetailsItemName" readonly
title="This will be auto-filled when you enter the item number above">
                          </div>
                          <div class="form-group col-md-2">
                            <label
for="purchaseDetailsCurrentStock">Current Stock</label>
                            <input type="text" class="form-control"
id="purchaseDetailsCurrentStock" name="purchaseDetailsCurrentStock" readonly>
                          </div>
                          <div class="form-group col-md-4">
                            <label
for="purchaseDetailsVendorName">Vendor Name<span
```

```
class="requiredIcon">*</span></label>
                                        <select id="purchaseDetailsVendorName"
name="purchaseDetailsVendorName" class="form-control chosenSelect">
                                            <?php

  require('model/vendor/getVendorNames.php');
                                            ?>
                                        </select>
                                    </div>
                                </div>
                                <div class="form-row">
                                    <div class="form-group col-md-2">
                                      <label
for="purchaseDetailsQuantity">Quantity<span class="requiredIcon">*</span></label>
                                      <input type="number" class="form-control"
id="purchaseDetailsQuantity" name="purchaseDetailsQuantity" value="0">
                                    </div>
                                    <div class="form-group col-md-2">
                                      <label for="purchaseDetailsUnitPrice">Unit
Price<span class="requiredIcon">*</span></label>
                                      <input type="text" class="form-control"
id="purchaseDetailsUnitPrice" name="purchaseDetailsUnitPrice" value="0">

                                    </div>
                                    <div class="form-group col-md-2">
                                      <label for="purchaseDetailsTotal">Total
Cost</label>
                                      <input type="text" class="form-control"
id="purchaseDetailsTotal" name="purchaseDetailsTotal" readonly>
                                    </div>
                                </div>
                                <button type="button" id="addPurchase" class="btn btn-
success">Add Purchase</button>
                                <button type="button" id="updatePurchaseDetailsButton"
class="btn btn-primary">Update</button>
                                <button type="reset" class="btn">Clear</button>
                            </form>
                        </div>
                    </div>
                </div>

                <div class="tab-pane fade" id="v-pills-vendor" role="tabpanel"
aria-labelledby="v-pills-vendor-tab">
                    <div class="card card-outline-secondary my-4">
                      <div class="card-header">Vendor Details</div>
                      <div class="card-body">
                      <!-- Div to show the ajax message from validations/db
submission -->
                      <div id="vendorDetailsMessage"></div>
                           <form>
                            <div class="form-row">
                                <div class="form-group col-md-6">
                                  <label for="vendorDetailsVendorFullName">Full
```

```
Name<span class="requiredIcon">*</span></label>
                                    <input type="text" class="form-control"
id="vendorDetailsVendorFullName" name="vendorDetailsVendorFullName" placeholder="">
                                </div>
                                <div class="form-group col-md-2">
                                    <label
for="vendorDetailsStatus">Status</label>
                                    <select id="vendorDetailsStatus"
name="vendorDetailsStatus" class="form-control chosenSelect">
                                        <?php include('inc/statusList.html');
?>
                                    </select>
                                </div>
                                 <div class="form-group col-md-3">
                                    <label for="vendorDetailsVendorID">Vendor
ID</label>
                                    <input type="text" class="form-control
invTooltip" id="vendorDetailsVendorID" name="vendorDetailsVendorID" title="This will
be auto-generated when you add a new vendor" autocomplete="off">
                                    <div
id="vendorDetailsVendorIDSuggestionsDiv" class="customListDivWidth"></div>
                                </div>
                            </div>
                            <div class="form-row">
                                <div class="form-group col-md-3">
                                    <label
for="vendorDetailsVendorMobile">Phone (mobile)<span
class="requiredIcon">*</span></label>
                                    <input type="text" class="form-control
invTooltip" id="vendorDetailsVendorMobile" name="vendorDetailsVendorMobile"
title="Do not enter leading 0">
                                </div>
                                <div class="form-group col-md-3">
                                    <label
for="vendorDetailsVendorPhone2">Phone 2</label>
                                    <input type="text" class="form-control
invTooltip" id="vendorDetailsVendorPhone2" name="vendorDetailsVendorPhone2"
title="Do not enter leading 0">
                                </div>
                                <div class="form-group col-md-6">
                                    <label
for="vendorDetailsVendorEmail">Email</label>
                                    <input type="email" class="form-control"
id="vendorDetailsVendorEmail" name="vendorDetailsVendorEmail">
                                </div>
                            </div>
                            <div class="form-group">
                                <label
for="vendorDetailsVendorAddress">Address<span class="requiredIcon">*</span></label>
                                <input type="text" class="form-control"
id="vendorDetailsVendorAddress" name="vendorDetailsVendorAddress">
                            </div>
                            <div class="form-group">
                                <label for="vendorDetailsVendorAddress2">Address
2</label>
```

```
                                    <input type="text" class="form-control"
id="vendorDetailsVendorAddress2" name="vendorDetailsVendorAddress2">
                               </div>
                               <div class="form-row">
                                    <div class="form-group col-md-6">
                                      <label
for="vendorDetailsVendorCity">City</label>
                                      <input type="text" class="form-control"
id="vendorDetailsVendorCity" name="vendorDetailsVendorCity">
                                    </div>
                                    <div class="form-group col-md-4">
                                      <label
for="vendorDetailsVendorDistrict">District</label>
                                      <select id="vendorDetailsVendorDistrict"
name="vendorDetailsVendorDistrict" class="form-control chosenSelect">
                                           <?php include('inc/districtList.html'); ?>
                                      </select>
                                    </div>
                               </div>
                               <button type="button" id="addVendor" name="addVendor"
class="btn btn-success">Add Vendor</button>
                               <button type="button" id="updateVendorDetailsButton"
class="btn btn-primary">Update</button>
                               <button type="button" id="deleteVendorButton"
class="btn btn-danger">Delete</button>
                               <button type="reset" class="btn">Clear</button>
                              </form>
                         </div>
                    </div>
               </div>

               <div class="tab-pane fade" id="v-pills-sale" role="tabpanel" aria-
labelledby="v-pills-sale-tab">
                    <div class="card card-outline-secondary my-4">
                      <div class="card-header">Sale Details</div>
                      <div class="card-body">
                           <div id="saleDetailsMessage"></div>
                           <form>
                             <div class="form-row">
                                  <div class="form-group col-md-3">
                                    <label for="saleDetailsItemNumber">Item
Number<span class="requiredIcon">*</span></label>
                                    <input type="text" class="form-control"
id="saleDetailsItemNumber" name="saleDetailsItemNumber" autocomplete="off">
                                    <div id="saleDetailsItemNumberSuggestionsDiv"
class="customListDivWidth"></div>
                                  </div>
                                  <div class="form-group col-md-3">
                                       <label for="saleDetailsCustomerID">Customer
ID<span class="requiredIcon">*</span></label>
                                       <input type="text" class="form-control"
id="saleDetailsCustomerID" name="saleDetailsCustomerID" autocomplete="off">
                                       <div
id="saleDetailsCustomerIDSuggestionsDiv" class="customListDivWidth"></div>
```

```
                                    </div>
                                    <div class="form-group col-md-4">
                                      <label for="saleDetailsCustomerName">Customer
Name</label>
                                      <input type="text" class="form-control"
id="saleDetailsCustomerName" name="saleDetailsCustomerName" readonly>
                                    </div>
                                    <div class="form-group col-md-2">
                                      <label for="saleDetailsSaleID">Sale ID</label>
                                      <input type="text" class="form-control
invTooltip" id="saleDetailsSaleID" name="saleDetailsSaleID" title="This will be
auto-generated when you add a new record" autocomplete="off">
                                      <div id="saleDetailsSaleIDSuggestionsDiv"
class="customListDivWidth"></div>
                                    </div>
                                </div>
                                <div class="form-row">
                                      <div class="form-group col-md-5">
                                          <label for="saleDetailsItemName">Item
Name</label>
                                          <!--<select id="saleDetailsItemNames"
name="saleDetailsItemNames" class="form-control chosenSelect"> -->
                                                <?php

 //require('model/item/getItemDetails.php');
                                                ?>
                                          <!-- </select> -->
                                          <input type="text" class="form-control
invTooltip" id="saleDetailsItemName" name="saleDetailsItemName" readonly title="This
will be auto-filled when you enter the item number above">
                                    </div>
                                    <div class="form-group col-md-3">
                                          <label for="saleDetailsSaleDate">Sale
Date<span class="requiredIcon">*</span></label>
                                          <input type="text" class="form-control
datepicker" id="saleDetailsSaleDate" value="2018-05-24" name="saleDetailsSaleDate"
readonly>
                                    </div>
                                </div>
                                <div class="form-row">
                                    <div class="form-group col-md-2">
                                                <label
for="saleDetailsTotalStock">Total Stock</label>
                                                <input type="text" class="form-
control" name="saleDetailsTotalStock" id="saleDetailsTotalStock" readonly>
                                                </div>
                                    <div class="form-group col-md-2">
                                      <label for="saleDetailsDiscount">Discount
%</label>
                                      <input type="text" class="form-control"
id="saleDetailsDiscount" name="saleDetailsDiscount" value="0">
                                    </div>
                                    <div class="form-group col-md-2">
                                      <label for="saleDetailsQuantity">Quantity<span
```

```
class="requiredIcon">*</span></label>
                                    <input type="number" class="form-control"
id="saleDetailsQuantity" name="saleDetailsQuantity" value="0">
                                </div>
                                <div class="form-group col-md-2">
                                    <label for="saleDetailsUnitPrice">Unit
Price<span class="requiredIcon">*</span></label>
                                    <input type="text" class="form-control"
id="saleDetailsUnitPrice" name="saleDetailsUnitPrice" value="0">
                                </div>
                                <div class="form-group col-md-3">
                                    <label for="saleDetailsTotal">Total</label>
                                    <input type="text" class="form-control"
id="saleDetailsTotal" name="saleDetailsTotal">
                                </div>
                            </div>
                            <div class="form-row">
                                <div class="form-group col-md-3">
                                    <div id="saleDetailsImageContainer"></div>
                                </div>
                            </div>
                            <button type="button" id="addSaleButton" class="btn
btn-success">Add Sale</button>
                            <button type="button" id="updateSaleDetailsButton"
class="btn btn-primary">Update</button>
                            <button type="reset" id="saleClear"
class="btn">Clear</button>
                        </form>
                    </div>
                </div>
            </div>
            <div class="tab-pane fade" id="v-pills-customer" role="tabpanel"
aria-labelledby="v-pills-customer-tab">
                <div class="card card-outline-secondary my-4">
                    <div class="card-header">Customer Details</div>
                    <div class="card-body">
                    <!-- Div to show the ajax message from validations/db
submission -->
                    <div id="customerDetailsMessage"></div>
                        <form>
                            <div class="form-row">
                                <div class="form-group col-md-6">
                                    <label
for="customerDetailsCustomerFullName">Full Name<span
class="requiredIcon">*</span></label>
                                    <input type="text" class="form-control"
id="customerDetailsCustomerFullName" name="customerDetailsCustomerFullName">
                                </div>
                                <div class="form-group col-md-2">
                                    <label
for="customerDetailsStatus">Status</label>
                                    <select id="customerDetailsStatus"
name="customerDetailsStatus" class="form-control chosenSelect">
```

```
                                        <?php include('inc/statusList.html');
?>
                                    </select>
                                </div>
                                <div class="form-group col-md-3">
                                    <label
for="customerDetailsCustomerID">Customer ID</label>
                                    <input type="text" class="form-control
invTooltip" id="customerDetailsCustomerID" name="customerDetailsCustomerID"
title="This will be auto-generated when you add a new customer" autocomplete="off">
                                    <div
id="customerDetailsCustomerIDSuggestionsDiv" class="customListDivWidth"></div>
                                </div>
                            </div>
                            <div class="form-row">
                                <div class="form-group col-md-3">
                                    <label
for="customerDetailsCustomerMobile">Phone (mobile)<span
class="requiredIcon">*</span></label>
                                    <input type="text" class="form-control
invTooltip" id="customerDetailsCustomerMobile" name="customerDetailsCustomerMobile"
title="Do not enter leading 0">
                                </div>
                                <div class="form-group col-md-3">
                                    <label
for="customerDetailsCustomerPhone2">Phone 2</label>
                                    <input type="text" class="form-control
invTooltip" id="customerDetailsCustomerPhone2" name="customerDetailsCustomerPhone2"
title="Do not enter leading 0">
                                </div>
                                <div class="form-group col-md-6">
                                    <label
for="customerDetailsCustomerEmail">Email</label>
                                    <input type="email" class="form-control"
id="customerDetailsCustomerEmail" name="customerDetailsCustomerEmail">
                                </div>
                            </div>
                            <div class="form-group">
                                <label
for="customerDetailsCustomerAddress">Address<span
class="requiredIcon">*</span></label>
                                <input type="text" class="form-control"
id="customerDetailsCustomerAddress" name="customerDetailsCustomerAddress">
                            </div>
                            <div class="form-group">
                                <label
for="customerDetailsCustomerAddress2">Address 2</label>
                                <input type="text" class="form-control"
id="customerDetailsCustomerAddress2" name="customerDetailsCustomerAddress2">
                            </div>
                            <div class="form-row">
                                <div class="form-group col-md-6">
                                  <label
for="customerDetailsCustomerCity">City</label>
                                  <input type="text" class="form-control"
```

```
id="customerDetailsCustomerCity" name="customerDetailsCustomerCity">
                                    </div>
                                    <div class="form-group col-md-4">
                                      <label
for="customerDetailsCustomerDistrict">District</label>
                                      <select id="customerDetailsCustomerDistrict"
name="customerDetailsCustomerDistrict" class="form-control chosenSelect">
                                           <?php include('inc/districtList.html'); ?>
                                      </select>
                                    </div>
                                </div>
                                <button type="button" id="addCustomer"
name="addCustomer" class="btn btn-success">Add Customer</button>
                                <button type="button" id="updateCustomerDetailsButton"
class="btn btn-primary">Update</button>
                                <button type="button" id="deleteCustomerButton"
class="btn btn-danger">Delete</button>
                                <button type="reset" class="btn">Clear</button>
                               </form>
                          </div>
                      </div>
                </div>

                <div class="tab-pane fade" id="v-pills-search" role="tabpanel"
aria-labelledby="v-pills-search-tab">
                     <div class="card card-outline-secondary my-4">
                       <div class="card-header">Search Inventory<button
id="searchTablesRefresh" name="searchTablesRefresh" class="btn btn-warning float-
right btn-sm">Refresh</button></div>
                       <div class="card-body">

                            <ul class="nav nav-tabs" role="tablist">
                                  <li class="nav-item">
                                        <a class="nav-link active" data-
toggle="tab" href="#itemSearchTab">Item</a>
                                  </li>
                                  <li class="nav-item">
                                        <a class="nav-link" data-toggle="tab"
href="#customerSearchTab">Customer</a>
                                  </li>
                                  <li class="nav-item">
                                        <a class="nav-link" data-toggle="tab"
href="#saleSearchTab">Sale</a>
                                  </li>
                                  <li class="nav-item">
                                        <a class="nav-link" data-toggle="tab"
href="#purchaseSearchTab">Purchase</a>
                                  </li>
                                  <li class="nav-item">
                                        <a class="nav-link" data-toggle="tab"
href="#vendorSearchTab">Vendor</a>
                                  </li>
                            </ul>
```

```
                        <!-- Tab panes -->
                        <div class="tab-content">
                              <div id="itemSearchTab" class="container-fluid
tab-pane active">
                                <br>
                                <p>Use the grid below to search all details of
items</p>
                                <!-- <a href="#" class="itemDetailsHover" data-
toggle="popover" id="10">wwwee</a> -->
                                    <div class="table-responsive"
id="itemDetailsTableDiv"></div>
                              </div>
                              <div id="customerSearchTab" class="container-fluid
tab-pane fade">
                                <br>
                                <p>Use the grid below to search all details of
customers</p>
                                    <div class="table-responsive"
id="customerDetailsTableDiv"></div>
                              </div>
                              <div id="saleSearchTab" class="container-fluid
tab-pane fade">
                                    <br>
                                    <p>Use the grid below to search sale
details</p>
                                    <div class="table-responsive"
id="saleDetailsTableDiv"></div>
                              </div>
                              <div id="purchaseSearchTab" class="container-fluid
tab-pane fade">
                                    <br>
                                    <p>Use the grid below to search purchase
details</p>
                                    <div class="table-responsive"
id="purchaseDetailsTableDiv"></div>
                              </div>
                              <div id="vendorSearchTab" class="container-fluid
tab-pane fade">
                                    <br>
                                    <p>Use the grid below to search vendor
details</p>
                                    <div class="table-responsive"
id="vendorDetailsTableDiv"></div>
                              </div>
                        </div>
                    </div>
                </div>
            </div>

            <div class="tab-pane fade" id="v-pills-reports" role="tabpanel"
aria-labelledby="v-pills-reports-tab">
                <div class="card card-outline-secondary my-4">
                  <div class="card-header">Reports<button
```

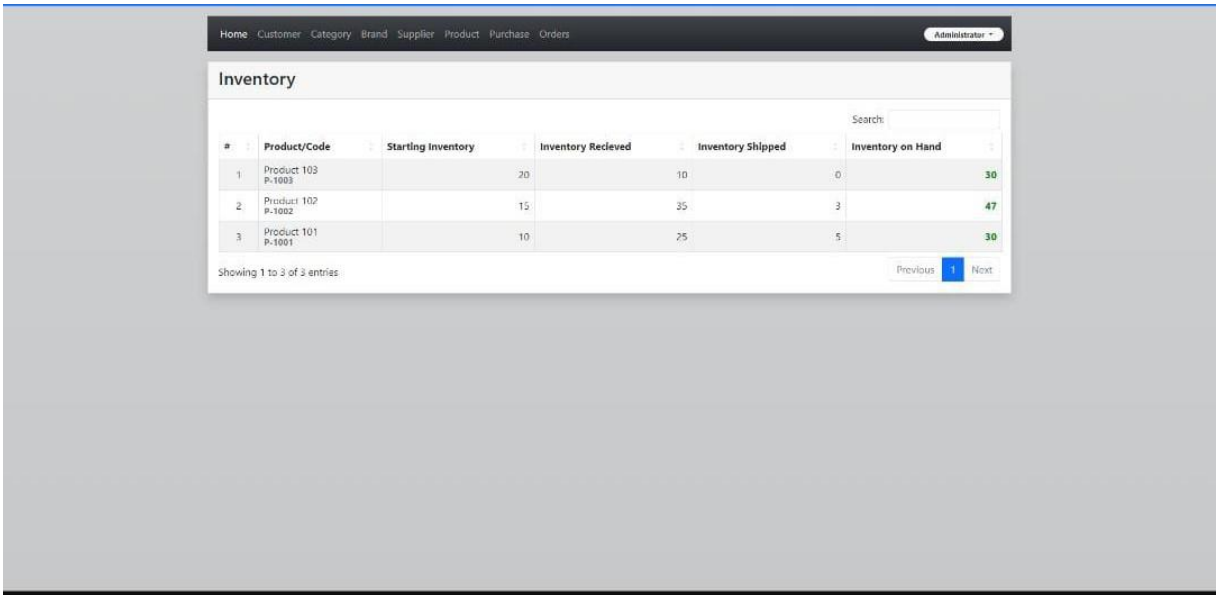
```
id="reportsTablesRefresh" name="reportsTablesRefresh" class="btn btn-warning float-
right btn-sm">Refresh</button></div>
                        <div class="card-body">

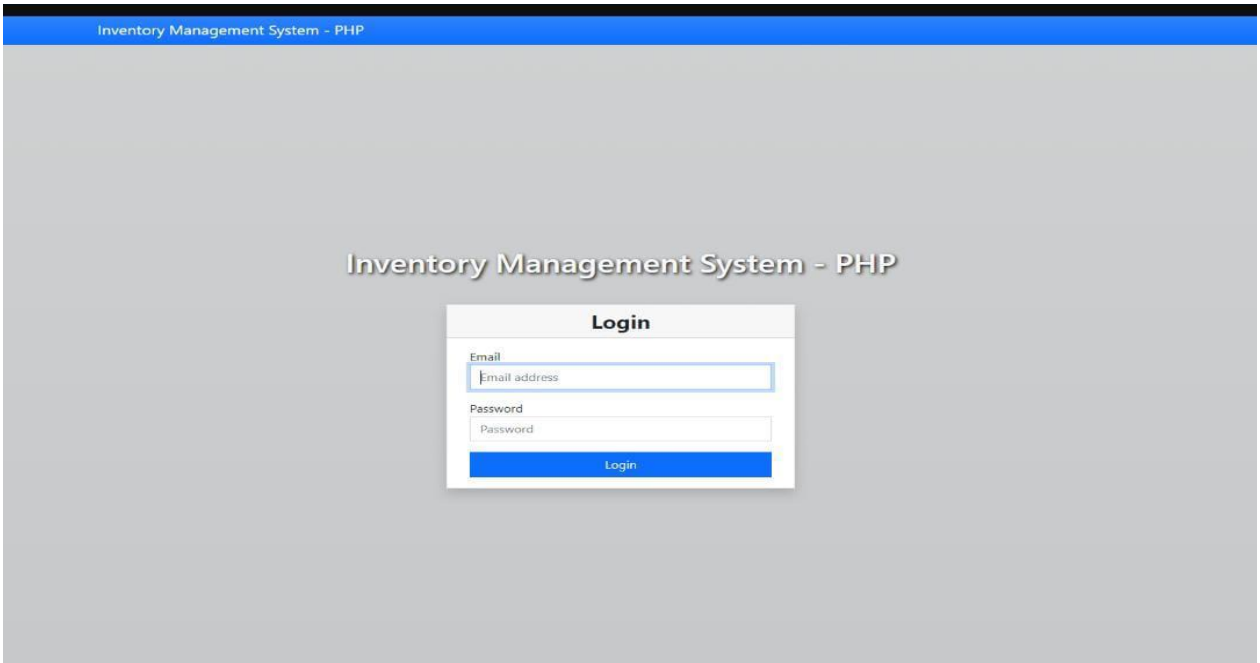
                            <ul class="nav nav-tabs" role="tablist">
                                  <li class="nav-item">
                                        <a class="nav-link active" data-
toggle="tab" href="#itemReportsTab">Item</a>
                                  </li>
                                  <li class="nav-item">
                                        <a class="nav-link" data-toggle="tab"
href="#customerReportsTab">Customer</a>
                                  </li>
                                  <li class="nav-item">
                                        <a class="nav-link" data-toggle="tab"
href="#saleReportsTab">Sale</a>
                                  </li>
                                  <li class="nav-item">
                                        <a class="nav-link" data-toggle="tab"
href="#purchaseReportsTab">Purchase</a>
                                  </li>
                                  <li class="nav-item">
                                        <a class="nav-link" data-toggle="tab"
href="#vendorReportsTab">Vendor</a>
                                  </li>
                            </ul>

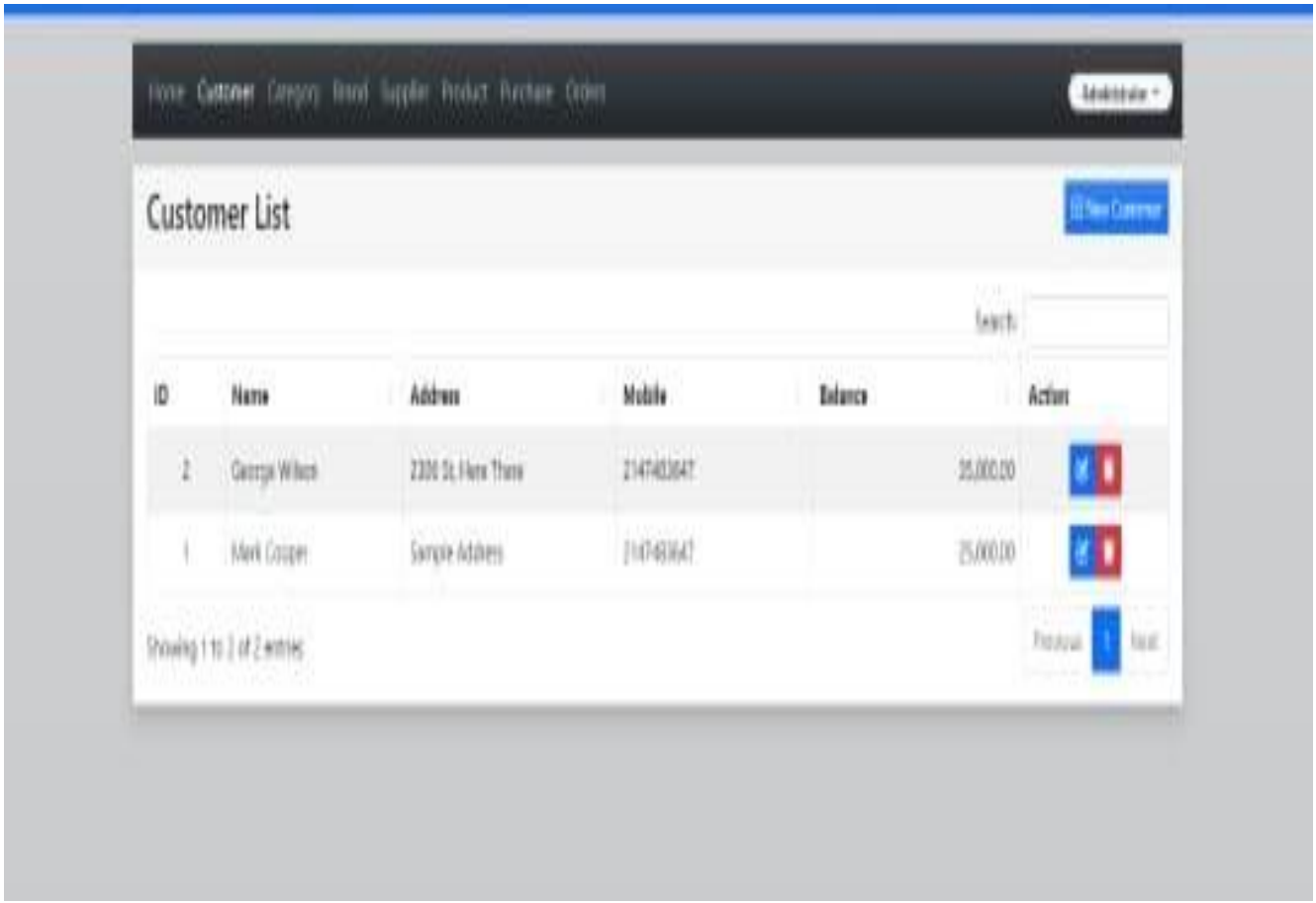
                            <!-- Tab panes for reports sections -->
                            <div class="tab-content">
                                  <div id="itemReportsTab" class="container-fluid
tab-pane active">
                                        <br>
                                        <p>Use the grid below to get reports for
items</p>
                                        <div class="table-responsive"
id="itemReportsTableDiv"></div>
                                  </div>
                                  <div id="customerReportsTab" class="container-
fluid tab-pane fade">
                                        <br>
                                        <p>Use the grid below to get reports for
customers</p>
                                        <div class="table-responsive"
id="customerReportsTableDiv"></div>
                                  </div>
                                  <div id="saleReportsTab" class="container-fluid
tab-pane fade">
                                        <br>
                                        <!-- <p>Use the grid below to get reports
for sales</p> -->
                                        <form>
                                          <div class="form-row">
                                                <div class="form-group col-md-3">
                                                      <label
```

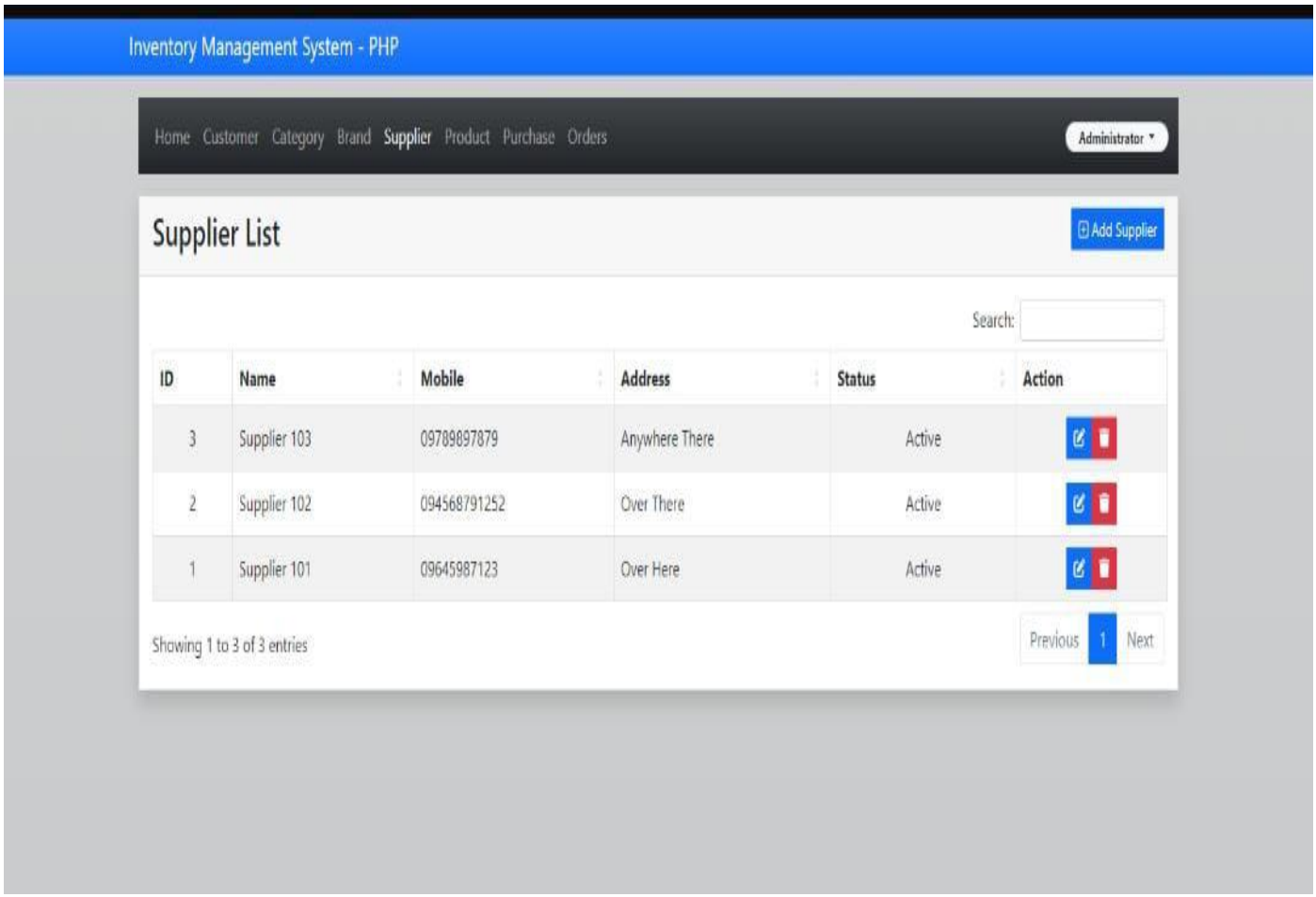
```
for="saleReportStartDate">Start Date</label>
                                                    <input type="text"
class="form-control datepicker" id="saleReportStartDate" value="2018-05-24"
name="saleReportStartDate" readonly>
                                                </div>
                                                <div class="form-group col-md-3">
                                                    <label
for="saleReportEndDate">End Date</label>
                                                    <input type="text"
class="form-control datepicker" id="saleReportEndDate" value="2018-05-24"
name="saleReportEndDate" readonly>
                                                </div>
                                            </div>
                                            <button type="button" id="showSaleReport"
class="btn btn-dark">Show Report</button>
                                            <button type="reset" id="saleFilterClear"
class="btn">Clear</button>
                                        </form>
                                        <br><br>
                                        <div class="table-responsive"
id="saleReportsTableDiv"></div>
                                    </div>
                                    <div id="purchaseReportsTab" class="container-
fluid tab-pane fade">
                                        <br>
                                        <!-- <p>Use the grid below to get reports
for purchases</p> -->
                                        <form>
                                            <div class="form-row">
                                                <div class="form-group col-md-3">
                                                    <label
for="purchaseReportStartDate">Start Date</label>
                                                    <input type="text"
class="form-control datepicker" id="purchaseReportStartDate" value="2018-05-24"
name="purchaseReportStartDate" readonly>
                                                </div>
                                                <div class="form-group col-md-3">
                                                    <label
for="purchaseReportEndDate">End Date</label>
                                                    <input type="text"
class="form-control datepicker" id="purchaseReportEndDate" value="2018-05-24"
name="purchaseReportEndDate" readonly>
                                                </div>
                                            </div>
                                            <button type="button"
id="showPurchaseReport" class="btn btn-dark">Show Report</button>
                                            <button type="reset"
id="purchaseFilterClear" class="btn">Clear</button>
                                        </form>
                                        <br><br>
                                        <div class="table-responsive"
id="purchaseReportsTableDiv"></div>
                                    </div>
                                    <div id="vendorReportsTab" class="container-fluid
tab-pane fade">
```

```
                                        <br>
                                        <p>Use the grid below to get reports for
vendors</p>
                                        <div class="table-responsive"
id="vendorReportsTableDiv"></div>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
<?php
 require 'inc/footer.php';
?>
  </body>
</html>
```


Home Customer Category Brand Supplier Product Purchase Orders
Administrator
Inventory
Search:
Product/Code Starting Inventory Inventory Recieved Inventory Shipped Inventory on Hand
1 Product 103 P-1003 20 10 0 30
2 Product 102 P-1002 15 35 3 47
3 Product 101 P-1001 10 25 5 30
Showing 1 to 3 of 3 entries
Previous 1 Next


Inventory Management System - PHP
Inventory Management System - PHP
Login
Email
Email address
Password
Password
Login


Customer List
Search:
ID
Name
Address
Mobile
Balance
Action
2
George Wilson
2200 St. Here There
2147483647
35,000.00
1
Mark Cooper
Sample Address
2147483647
25,000.00
Showing 1 to 2 of 2 entries
Previous
1
Next


Inventory Management System - PHP
Home Customer Category Brand Supplier Product Purchase Orders
Administrator
Supplier List
Add Supplier
Search:
ID
Name
Mobile
Address
Status
Action
3
Supplier 103
09789897879
Anywhere There
Active
2
Supplier 102
094568791252
Over There
Active
1
Supplier 101
09645987123
Over Here
Active
Showing 1 to 3 of 3 entries
Previous
1
Next

6. CONCLUSION

Once the on-boardingandtraining phasewraps up, thenewstaff member should be ready to engage ina rewarding long-lastingcareer.The full cyclerecruitingprocesscanindeedbe a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a muchneededandappreciated partofnurturingasuccessfulbusiness.

Evenforownersofsmallenterprises,forpeaceofmindinhiringthebestcandidateforajob,following thesteps of the recruitment lifecycle is wellworth thetime andeffortand isa provenmethodofreducingturnoverswithinacompany,savingbothtimeandmoneyinthelongrun.

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INTERNSHIP REPORT

A report submitted in partial fulfilment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGYIN
COMPUTER SCIENCE AND ENGINEERING

BY

Mr. Nitish Kumar Kamat

Enrollment No. (0115CE191022)

Under Supervision of

Mrs. Rachita Tiwari

Cybrom Technology Private Limited , Bhopal M. P.

(Duration: 01 July, 2022 to 30 Jan, 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGYBHOPAL, M. P

SESSION Jan-Jun 2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the **"Internship report"** *submitted by* **Mr. Nitish Kumar Kamat (0115CE191022)** *is work done by him and submitted during Jan - Jun 2023 academic year, in partial fulfillment of the requirements for the award of the degree of* **BACHELOR OF TECHNOLOGY** *in* **COMPUTER SCIENCE AND ENGINEERING** *at* **Cybrom Technology Private Limited Bhopal M. P.**

Prof. Mahendra Sahare

Internship Coordinator

Prof. Anurag Shrivastava

Department of CSE

NIIST, Bhopal

ACHNOWLEDGEMENT

First I would like to thank **Mrs. Rachita Tiwari** , **Cybrom Technology Private Limited Bhopal** *for giving me the opportunity to do an internship with in the organization. I also would like all thepeople that worked along with* , **Cybrom technology Private Limited Bhopal** *with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasureand immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebtedto Director* **Dr. Rajeev Arya.** *for the facilities provided to accomplish this internship. I would like to thank my Head of the Department* **Prof. Anurag Shrivastava** *for his constructive criticism throughout my internship. I would like to thank* **Prof. Mahendra Sahare,** *internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.*

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Nitish Kumar Kamat

(0115CE191022)

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Internship Offer Letter

Dear Nitish,

Cybrom Technology Pvt. Ltd. is pleased to offer you an Educational Internship Opportunity as an Intern. You will report directly to Ms Divya Jain. This position is located in Bhopal, MP.

You will be receiving academic credit for this position.

For this position, your major duties will include include configure, implement, and deploy systems and take care of websites. Your schedule will be approximately 7 hours per day from Monday to Saturday beginning 01/07/22 to 30/01/23..

Congratulation and welcome to the team

Sincerely

Authorized Signatory

Cybrom Technology Pvt. Ltd. Bhopal

ABSTRACT

The Company:

. **Cybrom Technology Private Limited Bhopal** is an independent software testing and Technical service provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutions we provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Cybrom Technology Private Limited Bhopal** understands this gap and bridges it with its best in class testing and technical services. , **Cybrom Technology Private Limited Bhopal** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical support by deploying industry's most reliable technology solutions for technical services like unit, functional, GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development – an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilitiesto the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implementedusing PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development – an opportunity unprecedented in India.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experiencein a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the ones who have been through the —school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- *The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.*

- *The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.*
- *Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.*
    - *As described by Christie [Christie 96], the specific objectives of the study are to*
    - *Identify the technical, social, and organizational inhibitors to the adoption of process automation:*
    - *Assess the prevalence and scope of software process automation.*
    - *Categorize the technologies and practices that are currently being used.*
    - *Identify effective and ineffective technologies and practices.*

- *Develop guidelines for process automation implementers.*
- *Support vendors and researchers in developing products more in tune with end-user needs:*
- *Develop guidelines for researchers and vendors to improve product effectiveness.*
- *Foster effective communications between researchers, vendors, developers and end users.*

Recruitment life cycle diagram:-



1.1 MODULES:

1. *Login page*
2. *Registration page*
3. *Admin page*
4. *Student homepage*
5. *Employee homepage*

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possibleto acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predictby studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the jobsuccessfully.
Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercialand in -house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

- *A vendor of a major process-oriented configuration management (CM) product*
- *Four DOD sites implementing process-centered environments (PCEs)*
- *Two U.S. government contractors who were developing process tools and implementing PCEs*
- *Two French government contractors who were implementing PCEs*
- *A French bank that is operating with a PCE • A university group with strong ties to industry*

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects. lin the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all, the interviews yielded 150 pages of transcripts. In one organization, two different projects were interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensuredthat we would have comparable information from each of the interviews. While the questions wereused to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie96].

2.4Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen aspilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of theorganizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development of the product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because of the immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

- *drivers and inhibitors*
- *contributors to success*
- *technology issues*

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: HTML, CSS, Pyhton,

JavaScript.

Text Editor : VSCode, SublimeText

Database : My SQL.

Package : XAMPP.

3.3Hardware Requirements:-

Processor : Intel core i3

Memory : 4GB RAM Hard

Disk : 500gb

4. TECHNOLOGY

4.1 PYTHON

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

Often, programmers fall in love with Python because of the increased productivity it provides. Since there is no compilation step, the edit-test-debug cycle is incredibly fast. Debugging Python programs is easy: a bug or bad input will never cause a segmentation fault. Instead, when the interpreter discovers an error, it raises an exception. When the program doesn't catch the exception, the interpreter prints a stack trace. A source level debugger allows inspection of local and global variables, evaluation of arbitrary expressions, setting breakpoints, stepping through the code a line at a time, and so on. The debugger is written in Python itself, testifying to Python's introspective power. On the other hand, often the quickest way to debug a program is to add a few print statements to the source: the fast edit-test-debug cycle makes this simple approach very effective.

Django is a free and open-source, Python-based web framework that follows the model-template-views architectural pattern. It is maintained by the Django Software Foundation, an independent organization established in the US as a 501 non-profit.

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4.2HTML

HTML is the standard mark-up language for creating Web pages. HTML

stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages HTML

elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

5 CODING

Python file

```
from ast import Pass
import email
from reprlib import recursive_repr
from unicodedata import name
from django. shortcuts import redirect, render
from django. http import HttpResponse
from. models import Faculty, Student


def home(req):
  return render(req,"hom. html")


def register(req):
  return render(req,"regg. html")


def login(req):
  return render(req,"logg. html")


def about(req):
  return render(req,"about. html")


def faculty(req):
  return render(req,"faculty. html")


def regTask(req):
 role=req. POST. get('role')
 if role=="Student":
  First_Name=req. POST. get('fname')
  Last_Name=req. POST. get('lname')
  Father_Name=req. POST. get('faname')
  Email=req. POST. get('email')

  Password=req. POST. get('pass1')
  Mobile=req. POST. get('mobile')
  Gender=req. POST. get('n1')
```

```
    DOB=req. POST. get('dob')

    ob=Student()
    ob. First_Name=First_Name
    ob. Last_Name=Last_Name
    ob. Father_Name=Father_Name
    ob. Email=Email
    ob. Password=Password
    ob. Mobile=Mobile
    ob. Gender=Gender
    ob. DOB=DOB
    ob. save()
    return redirect('/project1/login')

  elif role=="Faculty":
    First_Name=req. POST. get('fname')
    Last_Name=req. POST. get('lname')
    Father_Name=req. POST. get('faname')
    Email=req. POST. get('email')
    Password=req. POST. get('pass1')
    Mobile=req. POST. get('mobile')
    Gender=req. POST. get('n1')
    DOB=req. POST. get('dob')

    ob=Faculty()
    ob. First_Name=First_Name
    ob. Last_Name=Last_Name
    ob. Father_Name=Father_Name
    ob. Email=Email
    ob. Password=Password

  ob. Mobile=Mobile
    ob. Gender=Gender
    ob. DOB=DOB
    ob. save()
    return redirect('/project1/login')
  else:
```

```
    return HttpResponse("Please enter correct role")


def logTask(req):
 global rec
 Email=req.POST.get('email')
 Password=req.POST.get('pass1')

 role=req.POST.get('role')
 if role=="Student":
  ob=Student()
  ob.Email=Email
  ob.Password=Password
  rec=Student.objects.filter(Email=Email, Password=Password)
  # rec=Student.objects.all()
  for i in rec:
    if (Email==Email and Password==Password):
      return redirect("/project1/db")
    else:
      return redirect('/project1/login')
  return redirect('/project1/login')

 elif role=="Faculty":
  ob=Faculty()
  ob.Email=Email
  ob.Password=Password
  rec=Faculty.objects.filter(Email=Email, Password=Password)
  # rec=Student.objects.all()

 for i in rec:
    if (Email==Email and Password==Password):
      return redirect("/project1/db")
    else:
      return redirect('/project1/login')
  return redirect('/project1/login')

 else:
    return HttpResponse("Please select your correct role")
```

```
def db(req):
  return render(req,"sh. html",{'rec':rec})

def profile(req):
  return render(req,"profile. html",{'rec':rec})



from django. db import models

class Student(models. Model):
   First_Name=models. CharField(max_length=30)
   Last_Name=models. CharField(max_length=30)
   Father_Name=models. CharField(max_length=30)
   Email=models. CharField(max_length=30)
   Password=models. CharField(max_length=30)
   Mobile=models. CharField(max_length=30)
   Gender=models. CharField(max_length=30)
   DOB=models. DateField(max_length=30)

   def __str__(self):



s=self. First_Name+self. Last_Name+self. Father_Name+self. Email+self. Password+self. Mobile+self. Gender+s
tr(self. DOB)

 return s

class Faculty(models. Model):
   First_Name=models. CharField(max_length=30)
   Last_Name=models. CharField(max_length=30)
   Father_Name=models. CharField(max_length=30)
   Email=models. CharField(max_length=30)
   Password=models. CharField(max_length=30)
   Mobile=models. CharField(max_length=30)
```

```
        Gender=models. CharField(max_length=30)
        DOB=models. DateField(max_length=30)



        def __str__(self):

    s=self. First_Name+self. Last_Name+self. Father_Name+self. Email+self. Password+self. Mobile+self. Gender+s
    tr(self. DOB)

return s
```

```
  from django.urls import path
from. import views
urlpatterns=[
    path('', views.home),
    path('register', views.register),
    path('login', views.login),
    path('regTask', views.regTask),
    path('logTask', views.logTask),
    path("db", views.db),
    path('profile', views.profile),
    path('about', views.about),
    path('faculty', views.faculty
```

HTML file

```
{% load static %}
<! DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>my websites</title>
  <link rel="stylesheet" type="text/css" href="{% static 'css/bootstrap. css' %}">
  <script type="text/javascript" src="{% static 'js/bootstrap. js' %}"></script>

  <link rel="stylesheet" href="https://cdnjs. cloudflare. com/ajax/libs/font-awesome/4. 7. 0/css/font-
awesome. min. css">
  <link rel="stylesheet" type="text/css" href="{% static 'hom. css' %}">

</head>

<body>
  <! -- shadow -->
  <div class="shadow-sm bg-primary rounded" id="shadow">
    <p class="p-2" id="text"><i class="fa fa-phone text-warning" aria-hidden="true"></i> 0755-4085500 |
      <i class="" id="" aria-hidden="true"></i> Department Of Computer Science & Engineering |
      <a class="log" href="/project1/login">Login</a>
    </p>
  </div>

  <! -- navbar -->

  <div class="container-fluid sticky-top">
    <nav class="navbar navbar-expand-lg bg-light">
      <div class="container menubg">
        <a class="navbar-brand" href="#">
          <img src="{% static 'images/logo1. png' %}" alt="Logo" width="250" height="90">

        </a>
        <ul class="nav justify-content-center">

          <li class="nav-item dropdown">
            <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
              ABOUT
            </a>
            <ul class="dropdown-menu sub-menu-1">
              <li><a class="dropdown-item" href="/project1/about">About</a></li>
              <li><a class="dropdown-item" href="#">Message From The HOD</a></li>
              <li><a class="dropdown-item" href="#">RECOGNITION & ACHIEVEMENTS</a></li>
            </ul>
          </li>

          <li class="nav-item dropdown">
            <a class="nav-link" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
              ACTIVITIES
            </a>
            <ul class="dropdown-menu sub-menu-1">
              <li><a class="dropdown-item" href="#">Students Clubs</a></li>
              <li><a class="dropdown-item" href="#">Course Outcomes</a></li>
```

```
    <li><a class="dropdown-item" href="#">Laboratory</a></li>


{% load static %}
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>my websites</title>
  <link rel="stylesheet" type="text/css" href="{% static 'css/bootstrap.css' %}">
  <script type="text/javascript" src="{% static 'js/bootstrap.js' %}"></script>

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.min.css">
  <link rel="stylesheet" type="text/css" href="{% static 'hom.css' %}">

</head>

<body>
  <!-- shadow -->
  <div class="shadow-sm bg-primary rounded" id="shadow">
    <p class="p-2" id="text"><i class="fa fa-phone text-warning" aria-hidden="true"></i> 0755-4085500 |
      <i class="" id="" aria-hidden="true"></i> Department Of Computer Science & Engineering |
      <a class="log" href="/project1/login">Login</a>
    </p>
  </div>

  <!-- navbar -->

  <div class="container-fluid sticky-top">
    <nav class="navbar navbar-expand-lg bg-light">
      <div class="container menubg">
        <a class="navbar-brand" href="#">
          <img src="{% static 'images/logo1.png' %}" alt="Logo" width="250" height="90">

        </a>
        <ul class="nav justify-content-center">

          <li class="nav-item dropdown">
            <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
              ABOUT
            </a>
            <ul class="dropdown-menu sub-menu-1">
              <li><a class="dropdown-item" href="/project1/about">About</a></li>
              <li><a class="dropdown-item" href="#">Message From The HOD</a></li>
              <li><a class="dropdown-item" href="#">RECOGNITION & ACHIEVEMENTS</a></li>
            </ul>
          </li>

          <li class="nav-item dropdown">
            <a class="nav-link" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
              ACTIVITIES
            </a>
            <ul class="dropdown-menu sub-menu-1">
              <li><a class="dropdown-item" href="#">Students Clubs</a></li>
              <li><a class="dropdown-item" href="#">Course Outcomes</a></li>
              <li><a class="dropdown-item" href="#">Laboratory</a></li>
```

```
      </ul>


    </li>
     <li class="nav-item dropdown">
      <a class="nav-link" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
        ACADEMICS
      </a>
      <ul class="dropdown-menu sub-menu-1">
        <li><a class="dropdown-item" href="#">Academic Programs</a></li>
        <li><a class="dropdown-item" href="#">Academic Calendar</a></li>
        <li><a class="dropdown-item menu" href="#">Scheme</a></li>
     </li>
     <li><a class="dropdown-item" href="#">Syllabus</a></li>
    </ul>
    </li>
    <li class="nav-item dropdown">
     <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
       PLACEMENTS
     </a>
     <ul class="dropdown-menu sub-menu-1">
       <li><a class="dropdown-item" href="#">Our Recruitres</a></li>
       <li><a class="dropdown-item" href="#">Placed Students</a></li>
       <li><a class="dropdown-item" href="testimonial. html">Testimonial</a></li>
     </ul>
    </li>

    <li class="nav-item dropdown">
     <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
       PEOPLE
     </a>
     <ul class="dropdown-menu sub-menu-1">
       <li><a class="dropdown-item" href="/project1/faculty">Faculty</a></li>
       <li><a class="dropdown-item" href="#">Staff</a></li>
       <li><a class="dropdown-item" href="student. html">Students</a></li>
     </ul>
    </li>
    <li class="nav-item">
     <a class="nav-link" href="#">GALLERY</a>
    </li>
    <li class="nav-item">
     <a class="nav-link" href="#">CONTACT US</a>
    </li>
    </ul>
  </nav>
</div>

<! -- Animation bar -->

<div class="container-fluid">



  <div id="carouselExampleControls" class="carousel slide" data-bs-ride="carousel">
   <div class="carousel-inner">
    <div class="carousel-item active">
     <img src="{% static 'images/r55. jpg' %}" class="d-block w-100" alt="first slide" style="height:570px;">
    </div>
    <div class="carousel-item">
```

```
        <img src= {% static 'images/r2. jpg' %}  class= d-block w-100  alt= second slide


style="height:570px; ">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/r1. jpg' %}" class="d-block w-100" alt="third slide" style="height:570px; ">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/cse s. jpg' %}" class="d-block w-100" alt="fourth slide" style="height:570px; ">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/r4. jpg' %}" class="d-block w-100" alt="fourth slide" style="height:570px; ">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/r6. jpeg' %}" class="d-block w-100" alt="fourth slide" style="height:570px; ">
      </div>
      <div class="carousel-item">
        <img src="{% static 'images/r7. jpeg' %}" class="d-block w-100" alt="fourth slide" style="height:570px; ">
      </div>
    </div>
    <button class="carousel-control-prev" type="button" data-bs-target="#carouselExampleControls"
      data-bs-slide="prev">
      <span class="carousel-control-prev-icon" aria-hidden="true"></span>
      <span class="visually-hidden">Previous</span>
    </button>
    <button class="carousel-control-next" type="button" data-bs-target="#carouselExampleControls"
      data-bs-slide="next">
      <span class="carousel-control-next-icon" aria-hidden="true"></span>
      <span class="visually-hidden-"></span>
    </button>
  </div>

 </div>



 <! -- card imagess -->

 <div class="container pt-3 ">
  <div class="card">
    <div class="row ">
      <div class="col ">
        <img src="{% static 'images/Chairman-sir. jpg' %}" class="img-thumbnail" alt="director sir"
          style="width: 300px;  height: 300px; ">
        <h4>D.  Subhodh Singh</h4>
        <p>Chairman <b>NGI</b></p>
      </div>

      <div class="col">
        <img src="{% static 'images/rajeevsir. jpeg' %}" class="img-thumbnail" alt="director sir"
          style="width: 300px;  height: 300px; ">
        <h4>Dr.  Rajeev Arya</h4>
        <p>Director <b>NIIST</b></p>
      </div>



 <div class="col">
```

```
        <img src="{% static 'images/puransir. jpeg' %}" class="img-thumbnail" alt="director sir" style="width: 300px;
height:300px">
        <h4>Dr.  Puran Gour</h4>
        <p>Vice Principal <b>NIIST</b></p>
       </div>

       <div class="col">
        <img src="{% static 'images/anurag. jpeg' %}" class="img-thumbnail" alt="director sir" style="width: 300px;
height:300px">
        <h4>Prof.  Anurag Shrivastva</h4>
        <p>H. O. D <b>CSE(NIIST)</b></p>
       </div>
      </div>
    </div>
  </div>

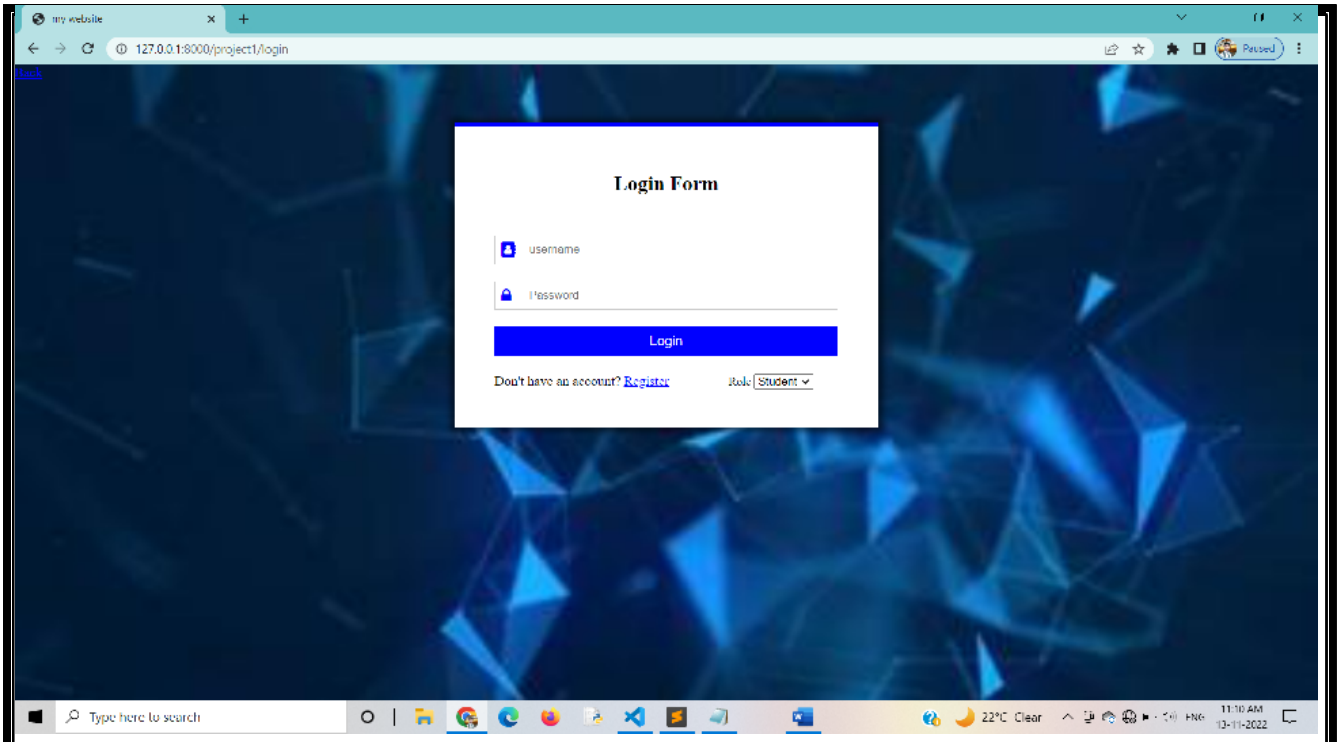
  <! -- End of card images -->

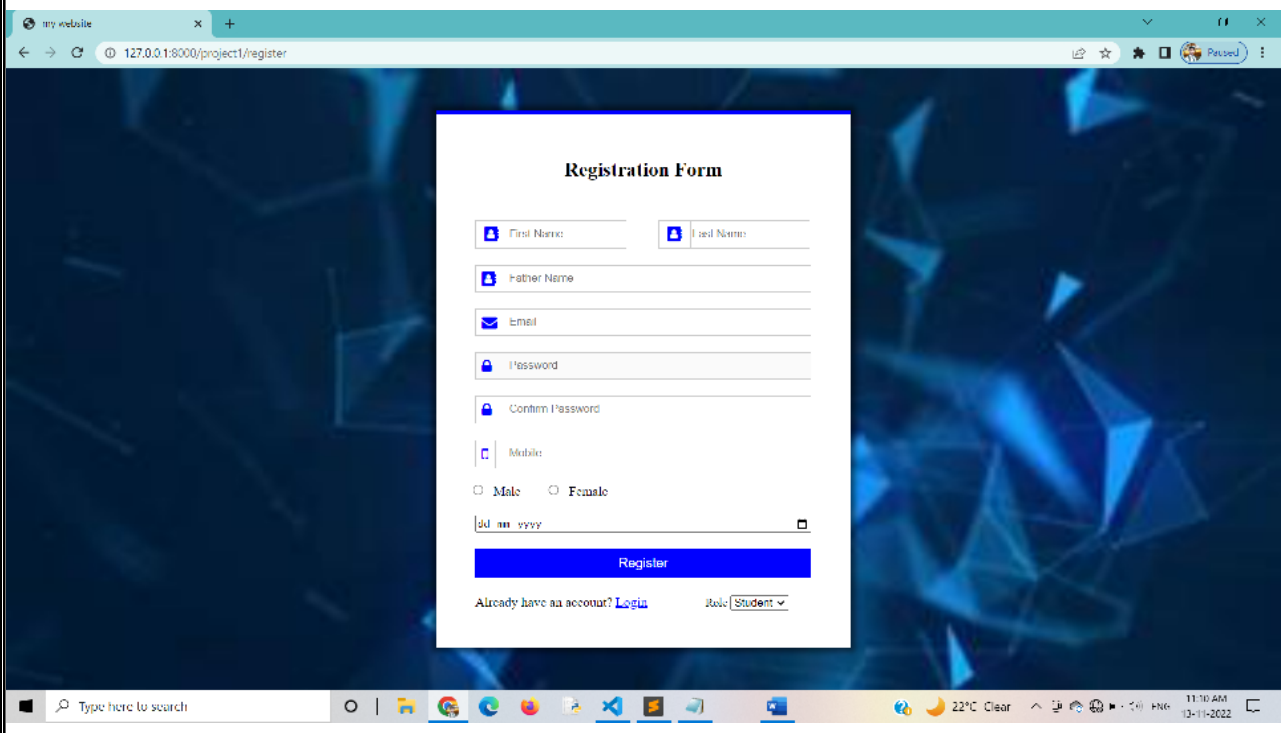

</div>
</body>

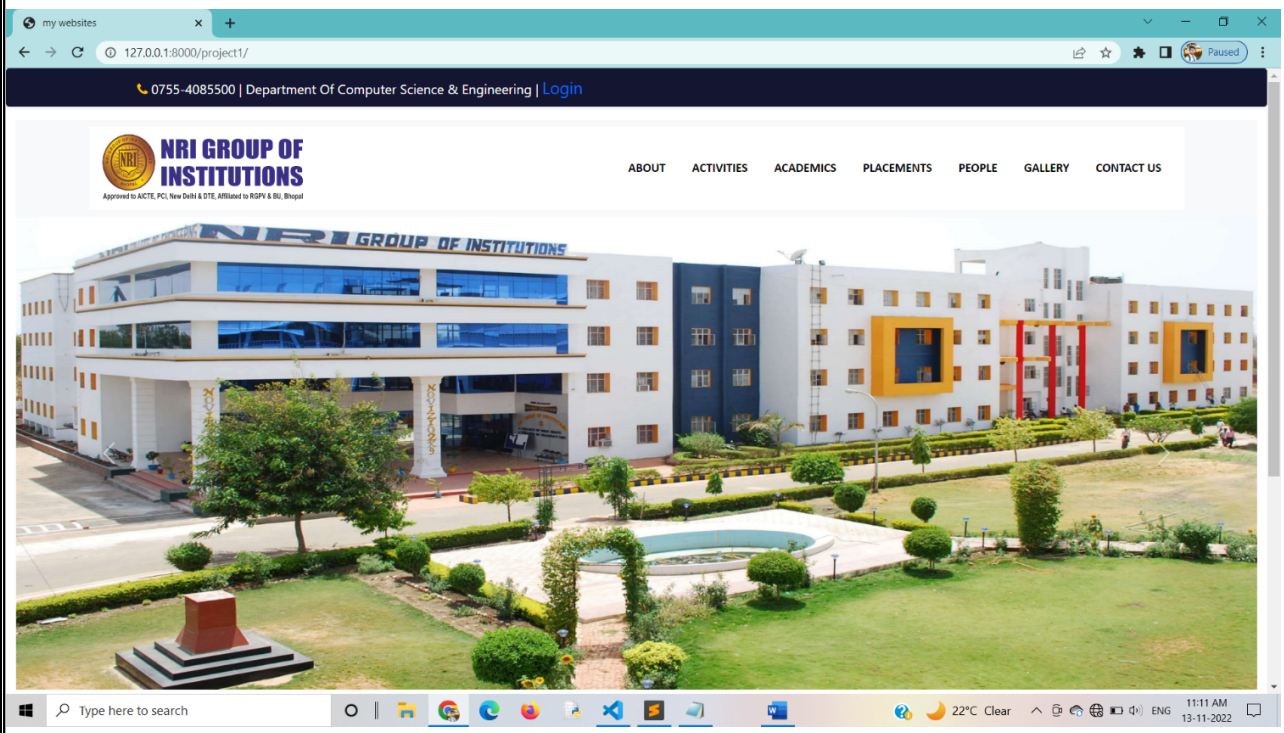
</html> </ul>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
            ACADEMICS
          </a>
          <ul class="dropdown-menu sub-menu-1">
            <li><a class="dropdown-item" href="#">Academic Programs</a></li>
            <li><a class="dropdown-item" href="#">Academic Calendar</a></li>
            <li><a class="dropdown-item menu" href="#">Scheme</a></li>
        </li>
        <li><a class="dropdown-item" href="#">Syllabus</a></li>
       </ul>
       </li>
       <li class="nav-item dropdown">
        <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
          PLACEMENTS
        </a>
        <ul class="dropdown-menu sub-menu-1">
          <li><a class="dropdown-item" href="#">Our Recruitres</a></li>
          <li><a class="dropdown-item" href="#">Placed Students</a></li>
          <li><a class="dropdown-item" href="testimonial. html">Testimonial</a></li>
        </ul>
       </li>

       <li class="nav-item dropdown">
        <a class="nav-link " href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
          PEOPLE
        </a>
        <ul class="dropdown-menu sub-menu-1">
          <li><a class="dropdown-item" href="/project1/faculty">Faculty</a></li>
          <li><a class="dropdown-item" href="#">Staff</a></li>
```

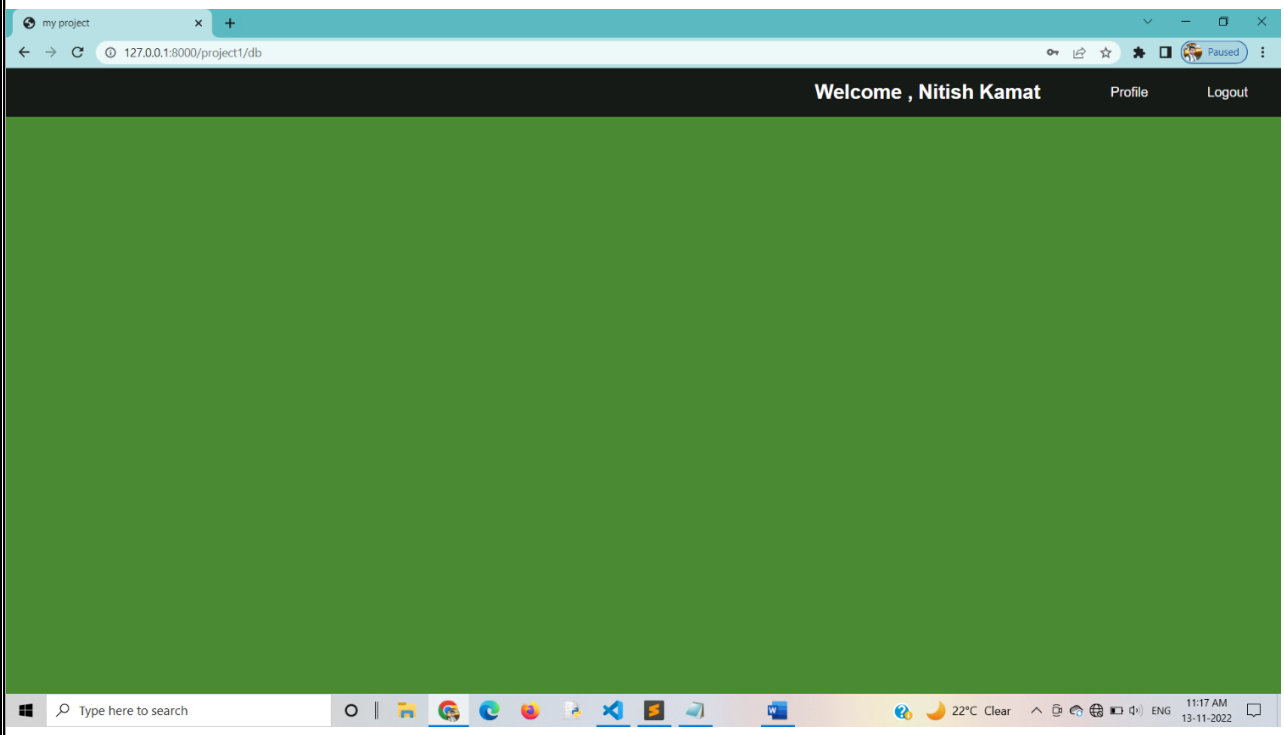
6. SCRENSHOT


my website
127.0.0.1:8000/project1/login
Back
Login Form
username
Password
Login
Don't have an account? Register
Role: Student
Type here to search
22°C Clear
11:10 AM
13-11-2022


my website
127.0.0.1:8000/project1/register
Registration Form
First Name
Last Name
Father Name
Email
Password
Confirm Password
Mobile
Male
Female
dd mm yyyy
Register
Already have an account? Login
Role: Student
Type here to search
22°C Clear
11:10 AM
13-11-2022


my websites
127.0.0.1:8000/project1/
Paused
0755-4085500 | Department Of Computer Science & Engineering | Login
NRI GROUP OF INSTITUTIONS
Approved by AICTE, PCI, New Delhi & DTE, Affiliated to RGPV & BU, Bhopal
ABOUT
ACTIVITIES
ACADEMICS
PLACEMENTS
PEOPLE
GALLERY
CONTACT US
NRI GROUP OF INSTITUTIONS
Type here to search
22°C Clear
ENG
11:11 AM
13-11-2022

After login


my project
127.0.0.1:8000/project1/db
Paused
Welcome , Nitish Kamat
Profile
Logout
Type here to search
22°C Clear
ENG
11:17 AM
13-11-2022

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experience for all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

8. BIBLIOGRAPHY

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2. Vikram Vaswani, —MySQL(TM): The Complete Reference‖, 4th edition, Mc Graw Hill Education publications.
3. Luke Welling, —Python and MySQL Web Development Book‖, 5th edition, Pearson India publications.
4. Larry Ullman, —Python and MySQL for Dynamic Web Sites‖, 4th edition, Pearson India publications.

Weblinks

To learn about the software required to use, we used, www.wikipidea.com

2. For more examples for learning, we referred, www.tutorialpoint.com.

3. For learning the Python and MySQL integration, we referred,

www.w3schools.com

INTERNSHIP REPORT

A report submitted in partial fulfilment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE ENGINEERING

Submitted To



PRANSHU GUPTA

Enrollment No. (0115CS191067)

Under Supervision of

Mr.Harsh Sharma

Sheryians Coding School, Bhopal M.P.

(Duration: Jan 2023 to Mar 2023)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

BHOPAL, M.P

SESSION 2019-2023

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY
BHOPAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **"Internship report"** submitted by **Pranshu Gupta (0115CS191067)**is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING** at **Sheryians Coding School, Bhopal M.P.**

Internship Coordinator

HOD Department of CSE
Prof. Anurag Shrivastava
Computer science & Engineering NIIST,Bhopal

ACHNOWLEDGEMENT

First I would like to thank Mr. Harsh Sharma **Sheryians Coding School** for giving me the opportunity to do an internship with in the organization. I also would like all thepeople that worked along with , **Sheryains Coding School** with their patience and openness they created an enjoyable working environment. It is indeed with a great sense of pleasureand immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebtedto Director **Dr. Rajiv Arya** and Principal **Mr. Puran Gaur**, for the facilities provided to accomplishthis internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Nitesh Gupta,** internship coordinator Department of CSE for their support and advices to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

Pranshu Gupta

(0115CS191067)

ABSTRACT

The Company:

Sheryians Coding School is an independent software testing and Technicalservice provider company, driven by industry experts and thought leaders in software testing and Technical services domain. We work with some of the technical service provider around the world including software products. As a focused partner globally with in-depth expertise in testing solutionswe provide functional, Test Automation, Script less Test Automation, Performance Testing and, serving multiple industries, technical service provider. , **Sheryians Coding School** understands this gap and bridges it with its best in class testing and technical services. , **Sheryians Coding School** leverages its extensive expertise in designing and deploying test automation solutions with a measurable value. We focus on optimizing investment on technical supportby deploying industry's most reliable technology solutions for technical services like unit, functional,GUI automation, performance, security, technical Service provider.

Programmers and opportunities:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India. As a result, a vibrant undergraduate programmer co-exists with a strong postgraduate programmer.

Methodology:

This project is to provide classifieds information. The website will provide different kinds of facilities to the user like career opportunities. The user should register to utilize the site. Each user will be given User Id and password. Using that Id and password user can enter in to the site and can put the details. Those who want to view the information they can without registration. This project is implementedusing PHP as the front-end and MySQL as back-end.

Key parts of the report:

The proposed system will make it easy for students to access the information they need. It will guide students through this process and provide access to verified sites that can help them. The system will also allow students to collect all the information they require and store it in a manner that makes it easy to access. Students will also have access to useful student testimonies and articles by counsellors.

Benefits to the company / institution through your report:

The Institute combines pioneering research with top class education. An innovative curriculum allows the student flexibility in selecting courses and projects. Students, even at the undergraduate level, get to participate in on-going research and technology development - an opportunity unprecedented in India.

certificate

of excellence

PRESENTED TO

PRANSHU GUPTA

for successfully completing the **training** on

BACK - END WEB DEVELOPMENT

with the **Sheryians Coding School** conducted from **Jan 05, 2023** to **Mar 15, 2023**

Training covered in depth knowledge of Node JS, Express JS & Mongo DB

SHERYIANS CODING SCHOOL

Adarsh Gupta
Co Founder - Sheryians

17-Mar-2023
Date

OWN THE CODE

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, makesure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand, It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones. This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the oneswho have been through the ―school of hard Knocks, taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects wesaw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.

- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals with xperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.
    - As described by Christie [Christie 96], the specific objectives of the study are to
    - Identify the technical, social, and organizational inhibitors to the adoption of process automation:
    - Assess the prevalence and scope of software process automation.
    - Categorize the technologies and practices that are currently being used.
    - Identify effective and ineffective technologies and practices.

- Develop guidelines for process automation implementers.
- Support vendors and researchers in developing products more in tune with end-user needs:
- Develop guidelines for researchers and vendors to improve product effectiveness.
- Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:-



1.1 MODULES:

1. Vs code
2. VS code File making
3. VS code Folder Making
4. Extracting File from Back-end
5. Extracting Folder From

2. ANALYSIS

2.1 Requirement Analysis:-

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.
Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2 The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experienced with process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report.

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercial and in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology. Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

• A vendor of a major process-oriented configuration management (CM) product

• Four DOD sites implementing process-centered environments (PCEs)

• Two U.S. government contractors who were developing process tools and implementing PCEs

• Two French government contractors who were implementing PCEs

• A French bank that is operating with a PCE • A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interview sessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all,the interviews yielded 150 pages of transcripts. In one organization, two different projects were

interviewed. With two other projects, multiple interviews were conducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of theorganizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projects ranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can be characterized as relatively immature (at or below level 2). Other projects had not been assessed formally, but many characterized themselves as having a poorly defined set of software development processes. Two projects were attempting software development activities for the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development ofthe product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because ofthe immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas. The findings fall into three

major categories

• drivers and inhibitors

• contributors to success

• technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations:-

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:-

Operating System: Windows

Coding Language: Node JS,Express,MongoDB

Text Editor : VSCode

Database : MongoDB.

Package : XAMPP.

3.3 Hardware Requirements:-

Processor : AMD Ryzen

Memory : 8GB RAM

Hard Disk : 512gb

4. TECHNOLOGY

4.1 JavaScript

JavaScript (often shortened to JS) is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well.

Javascript is used by programmers across the world to create dynamic and interactive web content like applications and browsers. JavaScript is so popular that it's the most used programming language in the world, used as a client-side programming language by 97.0% of all websites

4.2 Node JS

Node.js is an open source server environment

Node.js is free

Node.js runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)

Node.js uses JavaScript on the server

4.3 Express

Express.js is a small framework that works on top of Node.js web server functionality to simplify its APIs and add helpful new features.

It makes it easier to organize your application’s functionality with middleware and routing.

It adds helpful utilities to Node.js HTTP objects and facilitates the rendering of dynamic HTTP objects.

4.4 Mongo DB

MongoDB is an open-source document-oriented database that is designed to store a large scale of data and also allows you to work with that data very efficiently.

It is categorized under the NoSQL (Not only SQL) database because the storage and retrieval of data in the MongoDB are not in the form of tables.

5. CODING

Index.ejs:-

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sasta VS code </title>
    <link href="https://cdn.jsdelivr.net/npm/remixicon@2.2.0/fonts/remixicon.css"
rel="stylesheet">


    <link rel='stylesheet' href='/stylesheets/style.css' />
</head>
<!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sasta VS code </title>
    <link href="https://cdn.jsdelivr.net/npm/remixicon@2.2.0/fonts/remixicon.css"
rel="stylesheet">


    <link rel='stylesheet' href='/stylesheets/style.css' />
</head>

<body>

</body>
<div id="main">
    <div class="left">
        <h1>Sasta VS code</h1>
        <div class="nav">
            <div class="text">
                <h3>Folder Name </h3>


            </div>
            <div class="icon">
                <i id="fileicon" class="ri-file-add-line"></i>
                <i id="foldericon" class="ri-folder-add-line"></i>
                <i class="ri-restart-line"></i>
            </div>

        </div>
```

```
        <form id="filename" class="form" action="">
            <input type="text" placeholder="Filename">
        </form>
        <form id="foldername" class="form" action="">
            <input type="text" placeholder="Foldername">
        </form>
        <div class="files">
            <% files.forEach(function(elem){ %>
                <div class="file">
                    <i class="ri-file-fill"></i>
                    <%= elem %>
                        <!-- console.log(elem) -->
                </div>
                <% }) %>
                    <div class="icon"><i class="ri-folder-fill"></i>some folder</div>



        </div>


    </div>
    <div class="right">

    </div>
</div>



<script>
    function chalunband() {
        document.querySelectorAll("form").forEach(function(e) {
            e.style.display = "none"
        })
    }



    document.querySelector("#fileicon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#filename").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
        })
    })
    document.querySelector("#foldericon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#foldername").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
        })
    })
```

```
    window.addEventListener("keydown", function(dets) {
        console.log(dets.keyCode)
        if (dets.keyCode === 27) {
            chalunband();
            document.querySelectorAll("input").forEach(function(elem) {
                elem.value = "";
            })
        }

    })
</script>

</html>

<body>

</body>
<div id="main">
    <div class="left">
        <h1>Sasta VS code</h1>
        <div class="nav">
            <div class="text">
                <h3>Folder Name </h3>


            </div> <!DOCTYPE html>
<html>

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sasta VS code </title>
    <link href="https://cdn.jsdelivr.net/npm/remixicon@2.2.0/fonts/remixicon.css"
rel="stylesheet">


    <link rel='stylesheet' href='/stylesheets/style.css' />
</head>

<body>

</body>
<div id="main">
    <div class="left">
        <h1>Sasta VS code</h1>
        <div class="nav">
            <div class="text">
                <h3>Folder Name </h3>
```

```
            </div>
            <div class="icon">
                <i id="fileicon" class="ri-file-add-line"></i>
                <i id="foldericon" class="ri-folder-add-line"></i>
                <i class="ri-restart-line"></i>
            </div>

        </div>

        <form id="filename" class="form" action="">
            <input type="text" placeholder="Filename">
        </form>
        <form id="foldername" class="form" action="">
            <input type="text" placeholder="Foldername">
        </form>
        <div class="files">
            <% files.forEach(function(elem){ %>
                <div class="file">
                    <i class="ri-file-fill"></i>
                    <%= elem %>
                        <!-- console.log(elem) -->
                </div>
                <% }) %>
                    <div class="icon"><i class="ri-folder-fill"></i>some folder</div>



        </div>


    </div>
    <div class="right">

    </div>
</div>



<script>
    function chalunband() {
        document.querySelectorAll("form").forEach(function(e) {
            e.style.display = "none"
        })
    }



    document.querySelector("#fileicon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#filename").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
```

```
        })
    })
    document.querySelector("#foldericon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#foldername").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
        })
    })


    window.addEventListener("keydown", function(dets) {
        console.log(dets.keyCode)
        if (dets.keyCode === 27) {
            chalunband();
            document.querySelectorAll("input").forEach(function(elem) {
                elem.value = "";
            })
        }

    })
</script>

</html>
            <div class="icon">
                <i id="fileicon" class="ri-file-add-line"></i>
                <i id="foldericon" class="ri-folder-add-line"></i>
                <i class="ri-restart-line"></i>
            </div>

        </div>

        <form id="filename" class="form" action="">
            <input type="text" placeholder="Filename">
        </form>
        <form id="foldername" class="form" action="">
            <input type="text" placeholder="Foldername">
        </form>
        <div class="files">
            <% files.forEach(function(elem){ %>
                <div class="file">
                    <i class="ri-file-fill"></i>
                    <%= elem %>
                        <!-- console.log(elem) -->
                </div>
                <% }) %>
                    <div class="icon"><i class="ri-folder-fill"></i>some folder</div>



        </div>
```

```
    </div>
    <div class="right">

    </div>
</div>



<script>
    function chalunband() {
        document.querySelectorAll("form").forEach(function(e) {
            e.style.display = "none"
        })
    }



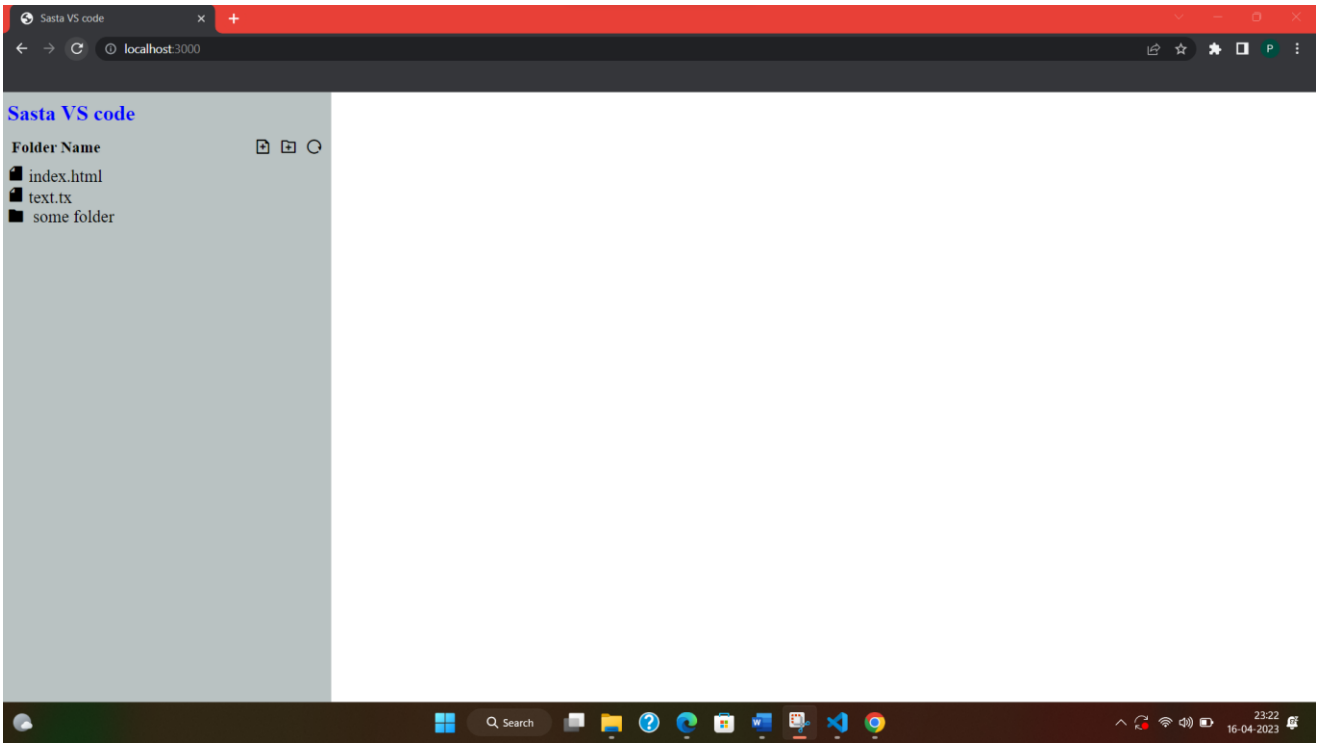
    document.querySelector("#fileicon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#filename").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
        })
    })
    document.querySelector("#foldericon").addEventListener("click", function() {
        chalunband();
        document.querySelector("#foldername").style.display = "initial"
        document.querySelectorAll("input").forEach(function(elem) {
            elem.value = "";
        })
    })

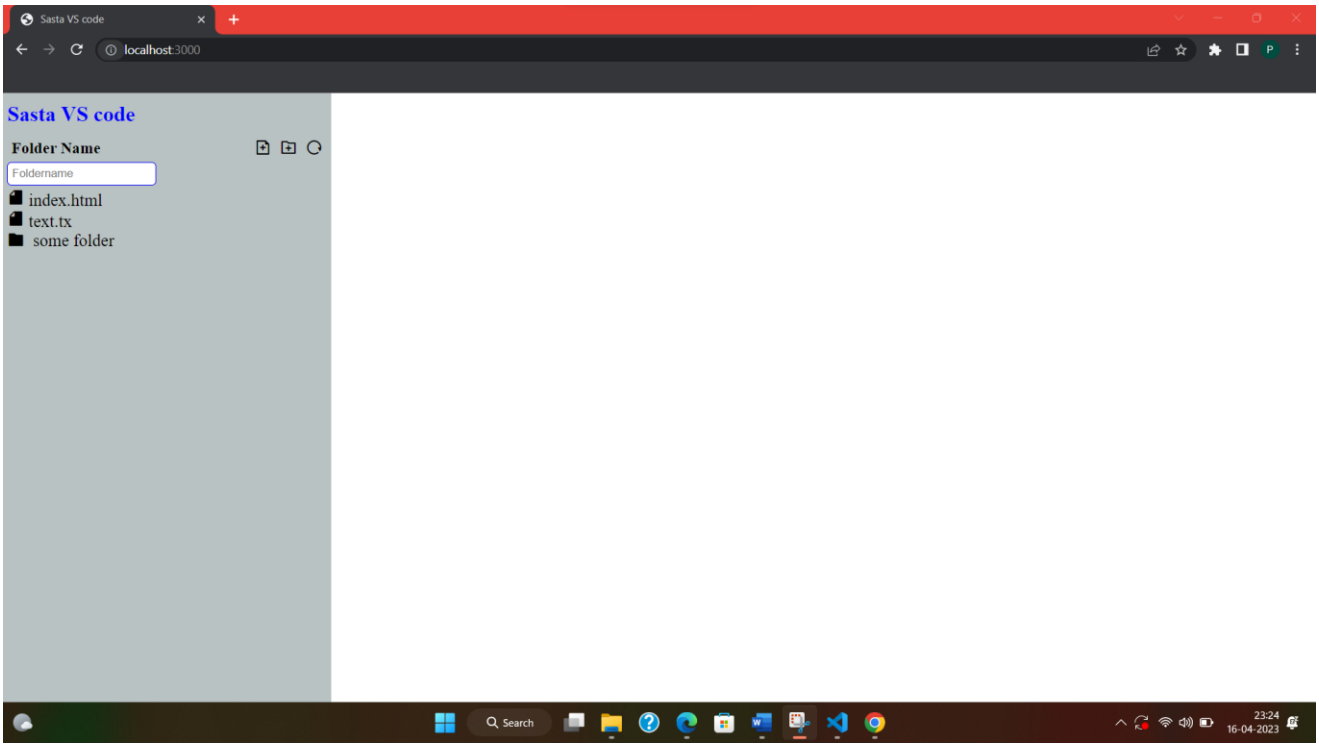

    window.addEventListener("keydown", function(dets) {
        console.log(dets.keyCode)
        if (dets.keyCode === 27) {
            chalunband();
            document.querySelectorAll("input").forEach(function(elem) {
                elem.value = "";
            })
        }

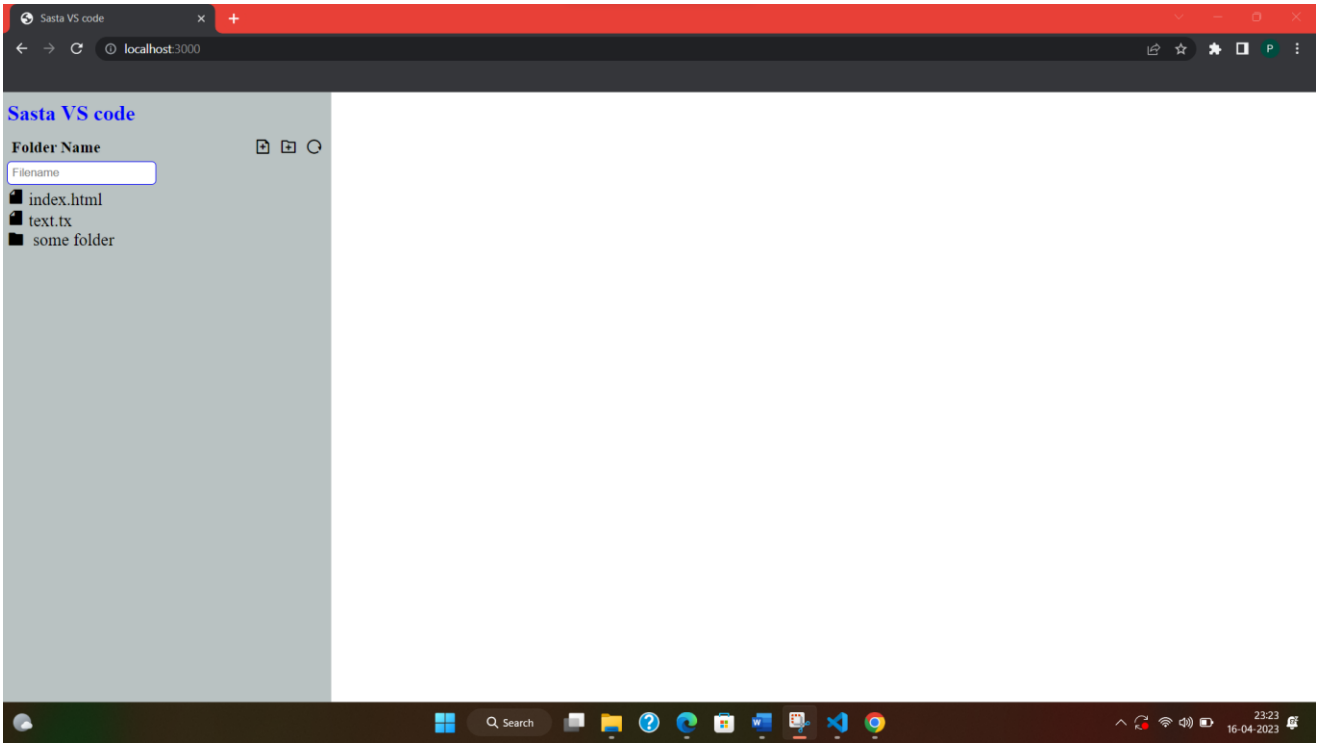
    })
</script>

</html>
```

6. SCREENSHOTS




Sasta VS code
localhost:3000
Sasta VS code
Folder Name
Foldername
index.html
text.tx
some folder
Search
23:24
16-04-2023


Sasta VS code
localhost:3000
Sasta VS code
Folder Name
Filename
index.html
text.tx
some folder
Search
23:23
16-04-2023

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a grueling experiencefor all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

8. BIBLIOGRAPHY

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Weblinks

To learn about the software required to use, we used, www.wikipidea.com

2. For more examples for learning, we referred, www.tutorialpoint.com.

3. For learning the JavaScript and MySQL integration, we referred,

www.w3schools.com

INTERSHIP REPORT

A report submitted to partial fulfilment of the requirements for the

Award of degree of

BACHELOR OF TECHNOLOGY

In

Computer Science and Engineering

Submitted by

SIMRAN VISHWAKARMA 0115CS191102

Under Supervision of

Mrs. Geeta Dhurve

Steno Typist, DRCS Raisen M.P

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

NRI INSTITUTE OF INFORMATION SCIENCE AND TECHNOLOGY

BHOPAL, M.P.

SESSION 2019-2023

ACKNOWLEDGEMENT

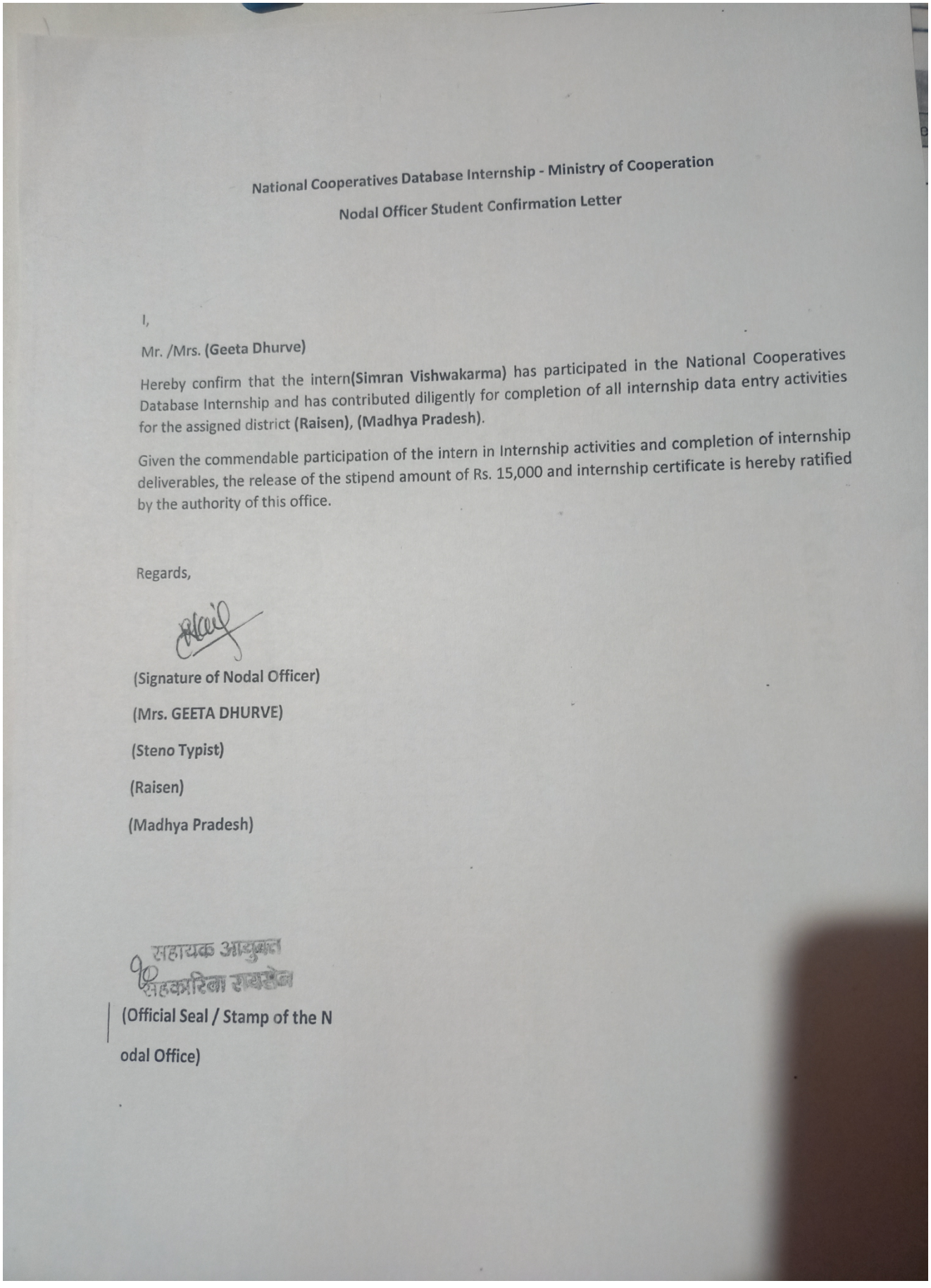
First, I would like to thank **Mrs. Geeta Dhurve**, **DRCS Raisen M.P.** for giving me the opportunity to do an internship within the organization. I also would like to thank all the people that worked along with **DRCS Raisen M.P** with their patience and openness. They created an enjoyable working environment. It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals. I am highly indebted to Director **Dr. Rajiv Arya** and Principal **Mr. Puran Gaur**, for the facilities provided to accomplish this internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for his constructive criticism throughout my internship. I would like to thank **Prof. Nitesh Gupta,** internship coordinator Department of CSE for their support and advice to get and complete internship in above said organization.

I am extremely grateful to my department staff members and friends who helped me in the successful completion of this internship.

SIMRAN VISHWAKARMA

(0115CS191102)

INTERNSHIP CERTIFICATE



National Cooperatives Database Internship - Ministry of Cooperation

Nodal Officer Student Confirmation Letter

I,

Mr. /Mrs. **(Geeta Dhurve)**

Hereby confirm that the intern**(Simran Vishwakarma)** has participated in the National Cooperatives Database Internship and has contributed diligently for completion of all internship data entry activities for the assigned district **(Raisen), (Madhya Pradesh)**.

Given the commendable participation of the intern in Internship activities and completion of internship deliverables, the release of the stipend amount of Rs. 15,000 and internship certificate is hereby ratified by the authority of this office.

Regards,

(Signature of Nodal Officer)

(Mrs. GEETA DHURVE)

(Steno Typist)

(Raisen)

(Madhya Pradesh)

सहायक आयुक्त
सहकारिता रायसेन

(Official Seal / Stamp of the N

odal Office)

ABOUT COMPANY

DRCS Raisen is a District Cooperative office. It organize voluntary cooperative institutes based on mutual support as a democratic means and develop them particularly to prevent the exploitation of weaker section of the society and to ensure their socio-economic development, various types of cooperative entities have been constituted at different levels in the State.

We are an early learning platform focused on social-emotional development and early literacy and numeracy. Our students walk out with the character and confidence to make their mark in the world, equipped with the knowledge and real-world skills that take them way ahead in the industry they may serve.

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ABSTRACT

Website design and learning HTML were the main objectives of this internship. To develop a web-based application there are several programming languages that are in use, some of them are only used for the front end and back-end design of the software. For example, HTML3, HTML4, HTML5, CSS bootstrap JavaScript etc.

There are also some other programming languages that are used to Develop the dynamic functions of the software or application. For example- PHP Java etc. Nowadays there are also some frameworks that use vastly. Frameworks are basically structured programming by using model view and controller. It is also called MVC. If we develop web-based applications that is very useful for us because we can access it from anywhere in the world. It is very helpful for our daily life. Therefore, I chose the subject of my report as web design training in REFFTO headed huge experiences in my upcoming career. Solving real life problems was another key issue. This report takes us through all the details of website design knowledge and experience gathered during this internship period.

CHAPTER 1
INTRODUCTION

1.1 Introduction

As a full-time student at NRI group of Institutes, I was provided an opportunity to undertake an internship at DRCS . The degree towards I am currently studying is a Bachelor of Engineering in Computer Science and Technology. The course at DRCSwas quite challenging for me for a few reasons: Firstly, the programming languages and development tools I was using were new for me, hence I had to quickly integrate not only with my new living environment but also academically. This was very beneficial for me as at the end I could compare what I've learnt with what I already knew and find a connection between the two.

This report is a description of my 45 days internship carried out as a compulsory component of the course at DRCS. In the following chapter details of tools and technology used and an overview is given. Afterwards, I explain my role and tasks as a trainee and give specific technical details about my main tasks. Finally, a conclusion is drawn from the experience.

1.2 Objective

The objective of the web design is to handle the entire design of a website. The software keeps track of all the information about the entire website. The system contains database where all the information will be stored safely.

1.2.1 To gain skills and knowledge

This internship provided us essential skills and knowledge one requires in the field of web designing. The crucial tools used during the tenure helped us in gaining knowledge about programming languages.

1.2.2 To get field work experience

By taking this training we enhanced our knowledge in Web designing and got insight in how the websites are designed using HTML and CSS.

1.2.3 To enhance our communication skills

By interacting with my trainee and classmates I got to learn a lot. It helped me to enhance my communicative skills and represent my work with confidence. It boosted my confidence to design more webpages and create some great designs just for fun.

1.2.4 To link theory with practice

First we learned the theory aspect and then we put that into practice. By doing the practical work, our concept got clearer and it was easy to code into HTML once we got familiar with it. By putting our theoretical knowledge into practical, coding became more fun.

1.2.5 To build a network

By learning how to code in HTML and CSS it is easy to build and design our own websites with all the changes we want. We also got to know about how websites are designed initially and the logic behind that.

1.3 Tools and Technology Used

Various tools and technology were used during our internship training.

Some of them are listed below:

1. HTML5

HTML stands for Hyper Text Mark-up Language. It is used to design web pages using mark-up language. HTML is the combination of Hypertext and Mark-up language. Hypertext defines the link between the web pages. Mark-up language is used to define the text document within tag which defines the structure of web pages. HTML5 is the fifth and current version of HTML. It has improved the mark-up available for documents and has introduced application programming interfaces (API) and Document Object Model (DOM).

Below example illustrate the HTML5 content:

```
<!DOCTYPE html>
<html>
<head>
```

```
<title>Page Title</title>
</head>
<body>
<h1>This is a Heading</h1>
<p> This is a paragraph. </p>
</body>
</html>
```

Output of above code:

This is a heading

This is a paragraph

2. CSS3

Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page. There are three types of CSS which are given below: Inline CSS

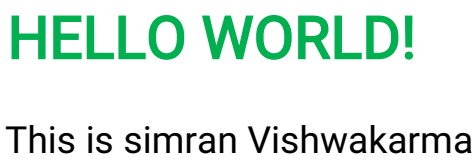
- Internal or Embedded CSS
- External CSS

Below example illustrate the CSS3 content:

```
<!DOCTYPE html>
<html>
<head>
<title> HTML 5 Demo</title>
<style>
. intern {
font-size:40px;
font-weight: bold;
color: green;
}
body {
text-align: center;
```

```
}
</style>
</head>
<body>
<div class = "intern">Hello World!</div>
<aside>
<div>This is simran Vishwakarma</div>
</aside>
</body>
</html>
```

OUTPUT



3. JavaScript

JavaScript is a lightweight, cross-platform and interpreted scripting language. It is well-known for the development of web pages; many non-browser environments also use it. JavaScript can be used for **Client-side** developments as well as **Server-side** developments.

Features of JavaScript:

- According to a recent survey conducted by **Stack Overflow**, JavaScript is the most popular language on earth. With advances in browser technology and JavaScript having moved into the server with Node.js and other frameworks, JavaScript is capable of so

much more.

- Functions in JS are objects. They may have properties and methods just like another object. They can be passed as arguments in other functions.
- Can handle date and time.
- Performs Form Validation although the forms are created using HTML.
- No compiler needed.

4. Sublime text

Artfully run by a one-man development team, the secret to sublime's success lies in the program's vast array of keyboard shortcuts - such as the ability to perform simultaneous editing (making the same interactive changes to multiple selected areas) as well as quick navigation to files, symbols, and lines. And when you're spending 8+ hours with your editor each day, those precious few seconds saved for each process really do

add up.

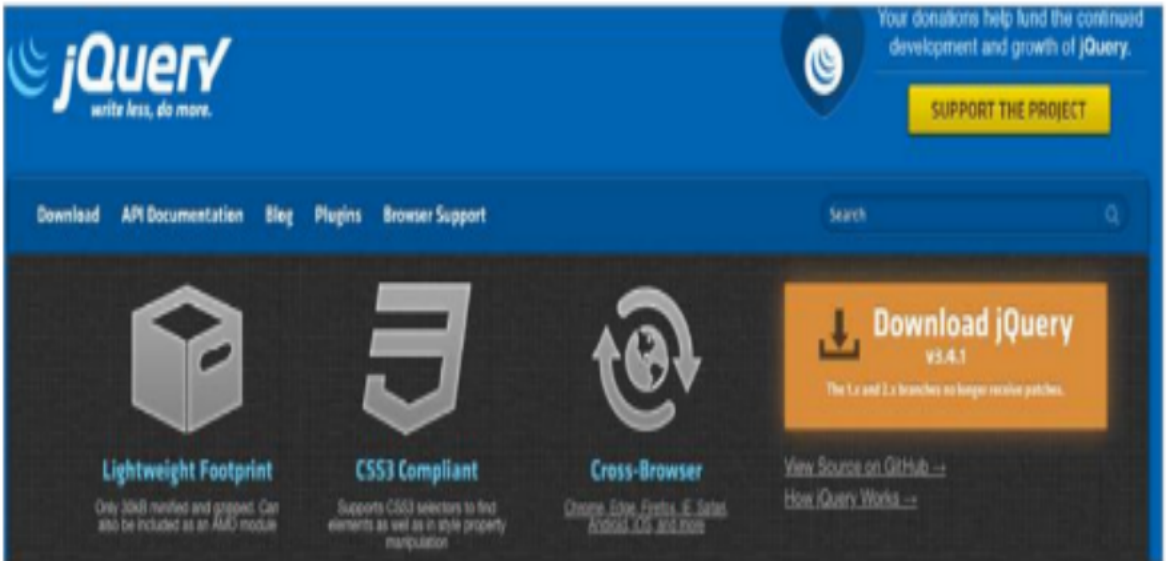


FIG:SUBLIME TEXT EDITOR

5. JQuery

JavaScript has long been considered an essential front-end language by developers, although it’s not without its problems: riddled with browser inconsistencies, its somewhat complicated and unapproachable syntax meant that functionality often suffered. That was until 2006, when jQuery – a fast, small, cross-\platform JavaScript library aimed at simplifying the front-end process – appeared on

the scene. By a lot of the functionality usually left for developers to solve on their own, jQuery allowed greater scope for creating animations, adding plug-ins, or even just navigating documents. And it’s clearly successful – jQuery was by far the most popular JavaScript library in existence in 2015, with installation on 65% of the top 10 million highest-trafficked sites on the web.



Chapter 2

Training work undertaken

2.1 Training Attended

According to RGPV University, the VIII Semester of B.Tech CS must involve an internship program. The students require at least 2 weeks of internship program for attaining a successful career in the related fields. There are more attendant and requirement is need to build a project. We know that, we can mix all languages like C++, C, HTML, PHP, JavaScript and more. The web server combines the results of the interpreted and executed HTML code, which maybe any type of data, including images, with the generated web page. The training that I attended In REFFTO included:

- ✓ HTML5
- ✓ CSS
- ✓ Bootstrap
- ✓ JavaScript
- ✓ Ajax
- ✓ JQuery

2.2 Roles and Responsibility

As an intern my responsibilities at REFFTO Pvt Ltd. was

to cover all aspects of creating web application to become a web developer. For this required core knowledge about designing tools like HTML, CSS, Bootstrap, JavaScript, etc. and backend scripting language like PHP. The main responsibility was to ensure that the web application designed must appeal to the desired target audience and, as a result, catches their attention and also include a working knowledge of different web browsers. While learning about web development I also gained knowledge about front end designing. During my internship period I mostly worked with designing “Training Management System” web application as well as other mini projects too.

2.3 Work environment

Front end Developer generally works at client side dealing with the web page design, graphics that is accessible to the user.
Back end Developer is a person who is responsible for the back end development that interacts with the server. This type of web developer specializes in the languages like PHP, Ruby, ASP.Net, Java and Perl.

The job profiles for the web developer includes:

- Front end web developer.
- Back end Web Developer.
- Web Application Developer.
- Design and Layout Analyst
- Senior web Analyst.
- Web Marketing Analyst.

Chapter 3

Result and Discussion

3.1 Discussion

During entire training session we discussed about how to analysis the project and how to work on it as per the requirement of client. The projects done during the internship are based on the tags of programming language HTML & CSS.

3.2 Learning Outcome

3.2.1 HTML

- **Basic Concept** (WWW & HTTP, client server communication)
- **Basic HTML** (tags, element, attributes, paragraphs, headings, line breaks, lists, table, color codes, font, text linking, email, images, background, comments, media, charset)
- **HTML Forms** (input, text fields, password, checkbox, combo-box, radio box, text areas, files, buttons)
- **HTML5** features

3.2.2 CSS

- **Basic CSS** (selector, internal, external, inline, class, id, background, font, text, padding, margin, border, list CSS, hovering and elements)
- **Advance CSS** (border-radius, opacity, cursor, layers, position, display, float, gradient and multiple-column)
- **Concept of Menu** (single menu, drop-down menu)
- Template design using CSS div.

3.2.3 Bootstrap

- Grid System
- Typography
- Tables, forms, buttons, images
- Dropdown, button group
- Navigation element
- Bootstrap plug-ins (Transition, Modal, Dropdown, Tab, tooltip, Alert, Button)

3.2.4 JavaScript

- Basic JavaScript (syntax, enable, location, operators, variables, events, alert, confirm, prompt, POP up, date, print)
- JavaScript string (strings, length, split, search, replace)

3.3 Result

Following are the screenshots of the result of the projects done during the internship period.

PROJECT-1

Time Table Using HTML

Time Table				
Days	1	2	LUNCH	3
Monday	English	Social Science		Sanskrit
Wednesday	Maths	G.K.		English
Friday	Science	Hindi		Computer

PROJECT-2

Table list using HTML

Developers List			
S.No	Developer Name	Language	Year
1	Berners Lee	HTML	1991
2	Hakon Wium Lie	CSS	December 17, 1996
3	Brendan Eich	JavaScript	May 1995
4	Rasmus Lerdorf	PHP	1994
5	Dennis Ritchie	C-Language	1972
6	James Gosling	JAVA	1995

PROJECT-3

Click on Button using HTML and CSS

Image 1



Image 2

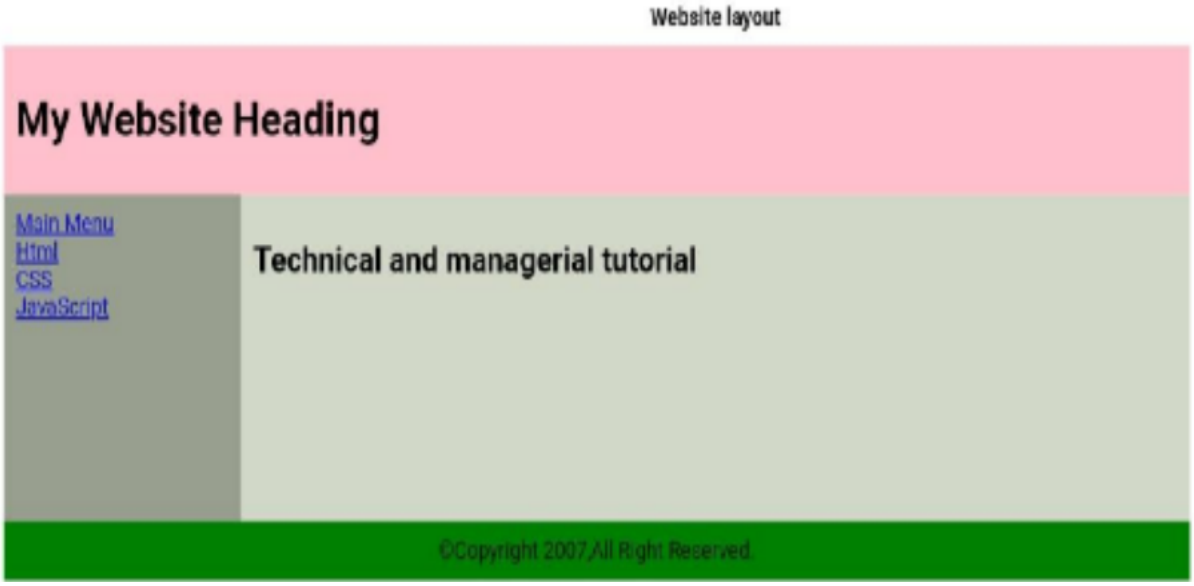


Image 3



PROJECT-4

Website Layout



PROJECT-5

Periodic Table using HTML and CSS

The Periodic Table

1 H																2 He
3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
87 Fr	88 Ra	89 Ac	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114	115 Mc	116 Lv	117 Ts	118 Og
		58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu		
		90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr		

CHAPTER 4

CONCLUSION AND FUTURE SCOPE

4.1 Conclusion

In conclusion, I can say that this internship was a great experience. Thanks to this project, I acquired deeper knowledge concerning my technical skills, but I also personally benefited.

Currently HTML is a common part of web applications, and it is one of the most popular language for web designing used by professionals worldwide. If we surf internet, we can see millions of websites designed with HTML and CSS. I learned to live in a different environment from the one I am used to. Indeed, I grew more independent in work and also in everyday life. I realized that I could do more things than I thought, like learning new things by myself. There are huge opportunities available for the students who want to work in this field.

Many private and public organizations hire web designer for their online work and website development. With the rapid advent of online industry, the demand of web development professionals is increasing, and this has created a huge job opportunity for the aspirants in the upcoming days. Also, an experienced person in this field can also work as a freelancer; there are many online companies which provide online projects to the individuals.

4.2 Future Scope

If someone has no experience in this field, finding work can be a real challenge. A successful internship can help an individual turn an experience into a career opportunity. So as a successful internship some future scopes are:

- To work in IT company.
- Can work as a Software Engineer.
- Can work as a Web Designer.
- Can work as a Web Developer.
- Can work as a QA Tester.

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-http://janastu.org

INTERNSHIP REPORT

Areportsubmittedinpartialfulfilmentoftherequirementsfor theAwardofDegreeo

BACHELOROFTECHNOLOGYIN
COMPUTERSCIENCEENGINEERING

BY

Mr.ShubhiSen

EnrollmentNo.(0115CS191101)

UnderSupervisionof

Mr.Adarsh Gupta

ShreyiansPrivateLimited,BhopalM.P.
(Duration:15Aril,2022to15October,2022)



DEPARTMENT

OFCOMPUTERSCIENCE&ENGINEERINGNRIINSTITUTEOFINFORMA

TIONSCIENCE&TECHNOLOGYBHOPAL,M.P

SESSION2019-2023

NRIINSTITUTEOFINFORMATIONSCIENCE&TECHNOLOGY
BHOPAL
DEPARTMENTOFCOMPUTERSCIENCEANDENGINEERING



CERTIFICATE

Thisistocertifythatthe**"Internshipreport"**submittedby**Ms.ShubhiSen(0115CS191101)**is work done by him and submitted during 2019 – 2023 academic year, in partial fulfillment of therequirementsfor the award of the degree of**BACHELOR OF TECHNOLOGY in COMPUTERSCIENCEANDENGINEERING**at**ShreyiansTechnologyPrivateLimitedBhopalM.P.**

InternshipCoordinator

HODDepartmentofCSE
Prof. AnuragShrivastava
Computerscience&EngineeringNIIST,Bhopal

certificate

of internship

PRESENTED TO

SHUBHI SEN

for successfully completing Six Months Internship on

FULL STACK WEB DEVELOPMENT

with the Sheryians Pvt. Ltd. from April 2022 to Oct 2022. Internship covered knowledge of Web technologies like HTML, CSS, JS, NodeJS, MongoDB & ReactJS

SHERYIANS CODING SCHOOL

Adarsh Gupta
Co Founder - Sheryians

10-Nov-2022
Date

OWN THE CODE

ACHNOWLEDGEMENT

FirstI wouldliketothankMs.ShubhiSen,**Shreyians PrivateLimited Bhopal**forgivingmetheopportunitytodoaninternshipwithintheorganization.IalsowouldlikeallthepeopleThatworked along with , **Shreyians Private Limited Bhopal**with their patience andopennesstheycreatedanenjoyableworkingenvironment.Itisindeedwithagreatsenseofpleasure andimmensesenseofgratitudethatIacknowledgethehelpoftheseindividuals.Iamhighlyindebtedto Director**Dr.RajivArya**andPrincipal**Mr.PuranGaur**,forthefacilitiesprovidedtoaccomplishthis internship. I would like to thank my Head of the Department **Mr. Anurag Shrivastava** for hisconstructive criticism throughout my internship. I would like to thank **Prof. Nitesh Gupta,** internshipcoordinatorDepartmentof CSE for their supportand advices to get andcomplete internship in abovesaidorganization.

I am extremely grateful to my department staff members and friends who helped me in successfulcompletionofthisinternship.

ShubhiSen(0115CS191101)

ABSTRACT

TheCompany:

ShreyiansPrivateLimitedBhopalisanindependentsoftwaretestingandTechnicalserviceprovidercompany,drivenbyindustryexpertsandthoughtleadersinsoftwaretestingandTechnical services domain. We work with some of the technical service provider around the worldincludingsoftwareproducts.Asafocusedpartnergloballywithin-depthexpertiseintestingsolutionsweprovidefunctional,TestAutomation,ScriptlessTestAutomation,PerformanceTestingand,serving multiple industries, technical service provider. ,**ShreyiansPrivate Limited Bhopal**understandsthisgapandbridgesitwithitsbestinclasstestingandtechnicalservices.,**Shreyians Private Limited Bhopal**leverages its extensive expertise in designing and deploying testautomationsolutionswithameasurablevalue.Wefocusonoptimizinginvestmentontechnicalsupportbydeployingindustry'smostreliabletechnologysolutionsfortechnicalserviceslikeunit,functional,GUIautomation,performance,security,technicalServiceprovider.

Programmersandopportunities:

The Institute combines pioneeringresearch with top class education.Aninnovative curriculum allowsthe student flexibility in selecting courses and projects. Students, even at the undergraduate level, get toparticipate in on-going research andtechnologydevelopment -an opportunity unprecedented inIndia.Asaresult,avibrantundergraduateprogrammerco-existswithastrongpostgraduateprogrammer.

Methodology:

Thisprojectistoprovideclassifiedsinformation.Thewebsitewillprovidedifferentkindsoffacilitiesto the user like career opportunities. The user should register to utilize the site. Each user will be givenUser Id and password. Using that Id and password user can enter in to the site and can put the details.Thosewhowanttoviewtheinformationtheycanwithoutregistration.Thisprojectisimplemented using PHPasthefront-end and MySQLas back-end.

Keypartsofthereport:

The proposed system will make it easy for students to access the information they need. It will guidestudents through this process and provideaccessto verified sites that can help them.Thesystem willalso allow students to collectall the information they require andstore it in

Benefitstothecompany /institutionthroughyourreport:

The Institute combinespioneering researchwith top class education. Aninnovative curriculum allowsthe student flexibility in selectingcourses and projects. Students, even at the undergraduatelevel,gettoparticipateinon-goingresearchandtechnologydevelopment-an opportunityunprecedentedinIndia.

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Learning Objectives/Internship Objectives

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.
- An objective for this position should emphasize the skills you already possess in the area and your interest in learning more
- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.
- Some internship is used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.
- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

1. INTRODUCTION

Software process automation is a technology that may be viewed as a two-edged sword. On The one hand it can be viewed as a productivity and quality enhancer, while on the other hand,

It can be viewed as a mechanism to control, routinize, and de-skill work. These views both Have elements of truth, but with appropriate design and adoption considerations, we believe That it is possible to enhance the positive elements while reducing the negative ones.

This report looks at the issues that have arisen for the early adopters of process automation. These people are the innovators, the ones who have been through the "school of hard Knocks," taken the brunt of an immature technology, and suffered from the fact that there are Few experienced people to guide them. Some of the projects we saw succeeded, some failed, But few found the going easy. This technology is not for the faint of heart—at least not yet. However, we hope, through this report, to document experiences and lessons learned. We Hope that we have extracted practical insights to provide insights to the developers of process Automation tools and guidance to those who wish to automate their processes.

These general objectives have been met through a series of activities that include in-depth interviews followed by a questionnaire survey and a workshop. The specific objectives of these activities are as follows:

- The interviews are aimed at gathering practitioner experiences in a relatively unstructured Way, to identify what individuals believe are the important issues in the adoption of software process automation, and to establish a basis for the more structured questionnaire survey. Some of the interviewees were contacted about a year after the initial interviews.
- The questionnaire survey assesses a wider cross-section of those involved with process automation and includes individuals outside the software community. Because the questionnaire respondents are following a standard format, the data in this phase of the study will be analysed in a more quantitative fashion.
- Finally, the workshop was aimed at identifying success strategies for the introduction of Software automation. The workshop brought together a widely diverse group of individuals withexperience in research and development, adoption, management and end use of process automation, and to raise awareness of critical issues across these communities.

As described by Christie [Christie 96], the specific objectives of the study are to

• Identify the technical, social, and organizational inhibitors to the adoption of processautomation:

– Assess the prevalence and scope of software process automation.

– Categorize the technologies and practices that are currently being used.

– Identify effective and ineffective technologies and practices.

– Develop guidelines for process automation implementers.

• Support vendors and researchers in developing products more in tune with end-userneeds:

– Develop guidelines for researchers and vendors to improve producteffectiveness.

– Foster effective communications between researchers, vendors, developers and end users.

Recruitment life cycle diagram:



1.1 MODULES:

1. Login page
2. Registration page
3. Background verification form
4. Induction form
5. Employee form

2. ANALYSIS

2.1 Requirement Analysis

The main objectives for undertaking this project are:

- To understand the internal Recruitment process in organization.
- To identify areas where there can be scope for improvement.
- To give suitable recommendation to streamline the hiring process.
- To develop practical knowledge with theoretical aspects.
- To know about the importance of recruitment and selection.
- To find out better process of recruitment.
- To know about the role of recruiter.

Need for recruitment:

It makes possible to choose the right person in the right time at the right place. It also makes it possible to acquire the number and type of people necessary to ensure the continued operation of the organization.

Planned needs: - such needs arise from changes in the organization policies.

Anticipated needs: - It refers to those movements in personnel which an organization can predict by studying trends in internal or external need.

Unexpected needs: - Such need arises due to illness, death and resignation.

Recruitment follows HR planning and goes hand in hand with selection process by which organizations evaluate the suitability of candidates. With successful recruiting to create a sizeable pool of candidates, even the most accurate selection system is of little use.

Recruiting begins when a vacancy occurs and the recruiter receives authorization to fill it.

The next step is careful examination of skills, abilities and experience needed to perform the job successfully. Other steps follow:

- Creating an applicant pool using internal or external methods.
- Evaluate candidate via selection
- Convince the candidate
- And finally make an offer

Selection process is good but it should also be modified according to the requirements and should job profile so that main objective of selecting the candidate could be achieved. Further from this survey I hope the organization will be benefited and with the help of the suggestions given the organization can improve its functioning and the overall Recruitment and Selection Process in the organization and its performance will increase.

2.2The Interviews

This report is based upon interviews with individuals who are knowledgeable about and experiencedwith process automation. We performed a qualitative analysis of these interviews to arrive at the findings reported here. The material in this section closely follows that presented in an earlier report [Christie 96].

Three independent organizations were involved in performing the interviews reported here: The SEI, Nolan Norton and Company (a division of KPMG Peat Marwick), and Cap GeminiSogeti(located in Grenoble, France).

2.2.1 The Interviewees

An extensive list of candidates was identified early on, including end-user organizations, commercialand in-house developers, and researchers. Our original goal was to interview mostly end users of process automation. However, that was not to be. Because of the immaturity of the technology, we interacted with relatively few experienced end users of the technology.

Most of our interviews were with people who were involved in developing and implementing process-centered environments (PCEs).

These individuals came from a wide variety of organizations including

- A vendor of a major process-oriented configuration management (CM) product
- FourDOD sites implementing process-centered environments (PCEs)
- Two U.S. government contractors who were developing process tools and implementing PCEs
- Two French government contractors who were implementing PCEs
- A French bank that is operating with a PCE
- A university group with strong ties to industry

2.3 How the Interviews Were Conducted

A total of 14 interviews were conducted with 12 projects.1in the large majority of these interviewsessions, two interviewers were present. The number of interviewees in each interview ranged from one to eight. All interviews were taped to ensure that the comments were recorded accurately. The interviews took approximately 36 hours with an average length of 2.4 hours per interview. All in all, the interviews yielded 150 pages of transcripts.

In one organization, two different projects were interviewed. With two other projects, multiple interviews wereconducted.

A standard script supported each interview. This script provided a consistent framework and ensured that we would have comparable information from each of the interviews. While the questions were used to support the interviews and to ensure coverage, they were not followed mechanically; areas of interest were often probed in depth. Christie provides further details of the interview format [Christie 96].

2.4 Interview Findings

The interviewees represented one or more automation efforts that, loosely speaking, can be seen as pilot projects. These projects ranged in size from fewer than 10 to more than 60 people.

For purposes of discussion, the numbers cited include the personnel for whom the automation was intended, as well as the developers of the automation if they are part of the same organization. Typical project size was toward the low end.

While we made no attempt to measure formally the process maturity level of the organizations/projects interviewed, some had previously undergone formal process assessments using the SEI Capability Maturity Model (CMM). These projectsranged in maturity from level 1 (ad hoc/chaotic) to level 5 (optimizing). However, most can becharacterized as relatively immature (at or below level 2). Other projects had not been assessedformally, but many characterized themselves as having a poorly defined set of softwaredevelopment processes. Two projects were attempting software development activitiesfor the first time.

Of the twelve projects interviewed (seven currently active, four inactive, one experimental), only two were far enough along for the automation to be considered institutionalized. In one case, the automation was associated with a company that developed and distributed a configurationmanagement product. This product has significant process capability that is used to support further development of the product. The other organization that effectively adopted PCE technology did so to support software problem tracking.

Four points may be made about the interviews and the findings derived from them. First, because of the immaturity of the technology, we interviewed few people who could be considered experienced end users of the technology. The great majority of interviewees were either developersof process-centered environments, developers of the process tools from which PCEs can be built, or managers of development projects. Second, the findings not only surfaced problems but identified potential solutions to these problems. We hope that this information will be useful to organizations intending to build and use PCEs. Third, interviewees' experiences were not always consistent, and these inconsistencies may at times be reflected in the report.

Fourth, as might be expected, we found that many of the adoption issues we identified have much in common with adoption issues associated with other technology areas.

The findings fall into three major categories

- drivers and inhibitors
- contributors to success
- technology issues

In the following discussions, we make heavy use of quotes (indicated in italics) from the interviews.

A major reason for this is that interviewees were surprisingly frank in giving us their views about process automation and how their organizations were dealing with it.

3. SYSTEM REQUIREMENTS SPECIFICATIONS

3.1 System configurations

The software requirement specification can produce at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by established a complete information description, a detailed functional description, a representation of system behavior, and indication of performance and design constrain, appropriate validate criteria, and other information pertinent to requirements.

3.2 Software requirements:

Operating System: Windows

Coding Language: HTML, CSS, PHP, JavaScript, and Bootstrap.

Text Editor : Sublime Text3.

Database : My SQL.

Package : XAMPP.

3.3 Hardware Requirements:

Processor : Intel core i3

Memory : 8GB RAM

Hard Disk : 1TB

4. TECHNOLOGY

4.1 PHP

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.PHP is server side scripting language designed for web development but also used as a general purpose programming language.

PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a common gateway interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a common-line interface (CLI) and can be used to implement standalone graphical applications.

Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in special start and end processing instructions <?php and ?> that allow you to jump into and out of "PHP mode."

What distinguishes PHP from something like client-side JavaScript is that the code is executed on the server, generating HTML which is then sent to the client. The client would receive the results of running that script, but would not know what the underlying code was. You can even configure your web server to process all your HTML files with PHP, and then there's really no way that users can tell what you have up your sleeve.

The best things in using PHP are that it is extremely simple for a newcomer, but offers many advanced features for a professional programmer. Don't be afraid reading the long list of PHP's features. You can jump in, in a short time, and start writing simple scripts in a few hours.

4.2 HTML

HTML is the standard mark-up language for creating Web pages.

HTML stands for Hyper Text Mark-up Language

HTML describes the structure of Web pages using mark-up

HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

5. CODING

Frontend

```
<! DOCTYPE>

<html>

<title>Induction</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">

<link rel="stylesheet" href="https://www.w3schools.com/lib/w3-theme-blue-grey.css">

<link rel='stylesheet' href='https://fonts.googleapis.com/css?family=Open+Sans'>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

<style>

html,body,h1,h2,h3,h4,h5 {font-family: "Open Sans", sans-serif}

</style>

<body class="w3-theme-l5">

<!--Navbar -->

<div class="w3-top">

<div class="w3-bar w3-theme-d2 w3-left-align w3-large">

<a class="w3-bar-item w3-button w3-hide-medium w3-hide-large w3-right w3-padding-large
w3-hover-white w3-large w3-theme-d2" href="javascript:void(0);" onclick="openNav()"><i
class="fafa-bars"></i></a>
```

```
<a href="#" class="w3-bar-item w3-button w3-padding-large w3-theme-d4"><i class="fafa-home w3-margin-right"></i>Logo</a>

<a href="#" class="w3-bar-item w3-button w3-hide-small w3-padding-large w3-hover-white" title="News"><i class="fafa-globe"></i></a>

<a href="#" class="w3-bar-item w3-button w3-hide-small w3-padding-large w3-hover-white" title="Account Settings"><i class="fafa-user"></i></a>

<a href="#" class="w3-bar-item w3-button w3-hide-small w3-padding-large w3-hover-white" title="Messages"><i class="fafa-envelope"></i></a>

<div class="w3-dropdown-hover w3-hide-small">

<button class="w3-button w3-padding-large" title="Notifications"><i class="fafa-bell"></i><span class="w3-badge w3-right w3-small w3-green">3</span></button>

<div class="w3-dropdown-content w3-card-4 w3-bar-block" style="width:300px">

<a href="#" class="w3-bar-item w3-button">One new friend request</a>

<a href="#" class="w3-bar-item w3-button">Ram posted on your wall</a>

<a href="#" class="w3-bar-item w3-button">Ritesh likes your post</a>

</div>

</div>

<a href="#" class="w3-bar-item w3-button w3-hide-small w3-right w3-padding-large w3-hover-white" title="My Account"><imgsrc="/w3images/avatar2.png" class="w3-circle" style="height:25px;width:25px" alt="pic"></a>

</div>

</div>

<!--Navbar on small screens -->

<div id="navDemo" class="w3-bar-block w3-theme-d2 w3-hide w3-hide-large w3-hide-medium w3-large">

<a href="#" class="w3-bar-item w3-button w3-padding-large">Link 1</a>
```

```
<a href="#" class="w3-bar-item w3-button w3-padding-large">Link 2</a>

<a href="#" class="w3-bar-item w3-button w3-padding-large">Link 3</a>

<a href="#" class="w3-bar-item w3-button w3-padding-large">My Profile</a>

</div>

<!-- Page Container -->

<div class="w3-container w3-content" style="max-width:1400px;margin-top:80px">

<!-- The Grid -->

<div class="w3-row">

<!-- Left Column -->

<div class="w3-col m3">

<!-- Profile -->

<div class="w3-card-2 w3-round w3-white">

<div class="w3-container">

<h4 class="w3-center">My Profile</h4>

<p class="w3-center"><imgsrc="/w3images/avatar3.png" class="w3-circle"
style="height:106px;width:106px" alt="pic"><center><form action="upload.php"
method="post" >

<input type="submit" value="Upload Image" name="submit">

</form></form>

</center>

</p>

<hr>

<p><i class="fafa-pencil fa-fw w3-margin-right w3-text-theme"></i> Designer, UI</p>
```

```
<p><i class="fafa-home fa-fw w3-margin-right w3-text-theme"></i>Gunupur, INDIA</p>

<p><i class="fafa-birthday-cake fa-fw w3-margin-right w3-text-theme"></i> Dec 18, 1997</p></div></div><br>

<!-- Accordion -->

<!-- Alert Box -->

<div class="w3-container w3-display-container w3-round w3-theme-l4 w3-border w3-theme-border w3-margin-bottom w3-hide-small">

<span onclick="this.parentElement.style.display='none'" class="w3-button w3-theme-l3 w3-display-topright">

<i class="fafa-remove"></i>

</span>

<p><strong>Hey!</strong></p>

<p>Positions that are available with our clients which suites your profile!...</p>

</div>

<!-- End Left Column --></div>

<!-- Middle Column -->

<div class="w3-col m7">

<div class="w3-row-padding">

<div class="w3-col m12">

<div class="w3-card-2 w3-round w3-white">

<div class="w3-container w3-padding">

<h6 class="w3-opacity">How do you feel?</h6>

<p contenteditable="true" class="w3-border w3-padding">Status: Feeling Blue</p>

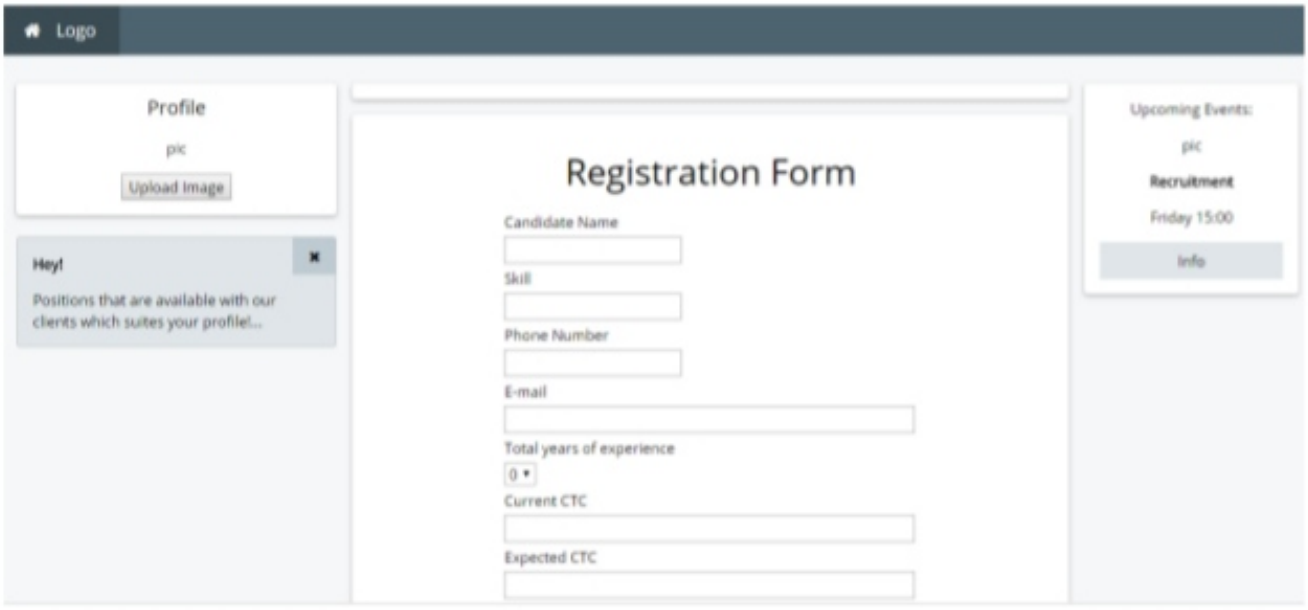
<button type="button" class="w3-button w3-theme"><i class="fafa-pencil"></i>  Post</button>
```

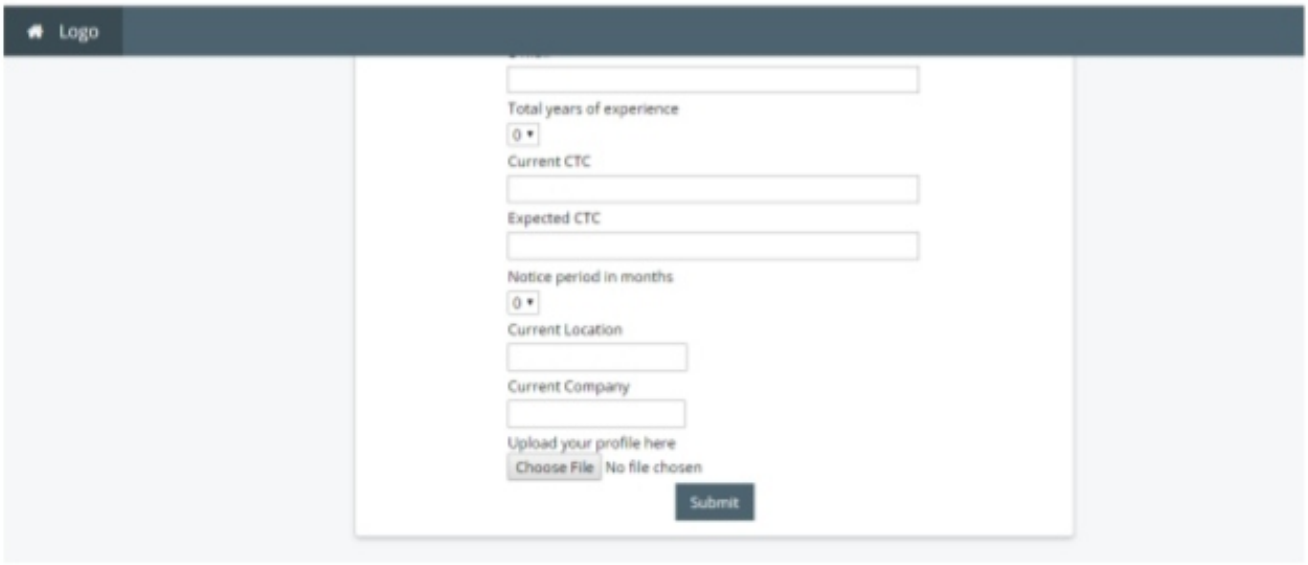
```
</div>
</div></div></div>
<div class="w3-container w3-card-2 w3-white w3-round w3-margin"><br>
<center><h1>Login Form</h1>
<form></center>
<table align="center">
<tr>
<td colspan="2" align="center"></td>
</tr>
<tr>
<td>id</td>
<td><input type="text" name="t1"></td>
</tr>
<tr>
<td>Pass</td>
<td><input type="text" name="t2"></td>
</tr>
</table>
</form>
<div class="w3-row-padding" style="margin:0 -16px">
</div>
<center><button type="button" class="w3-button w3-theme-d2 w3-margin-
bottom">Submit</button>
```

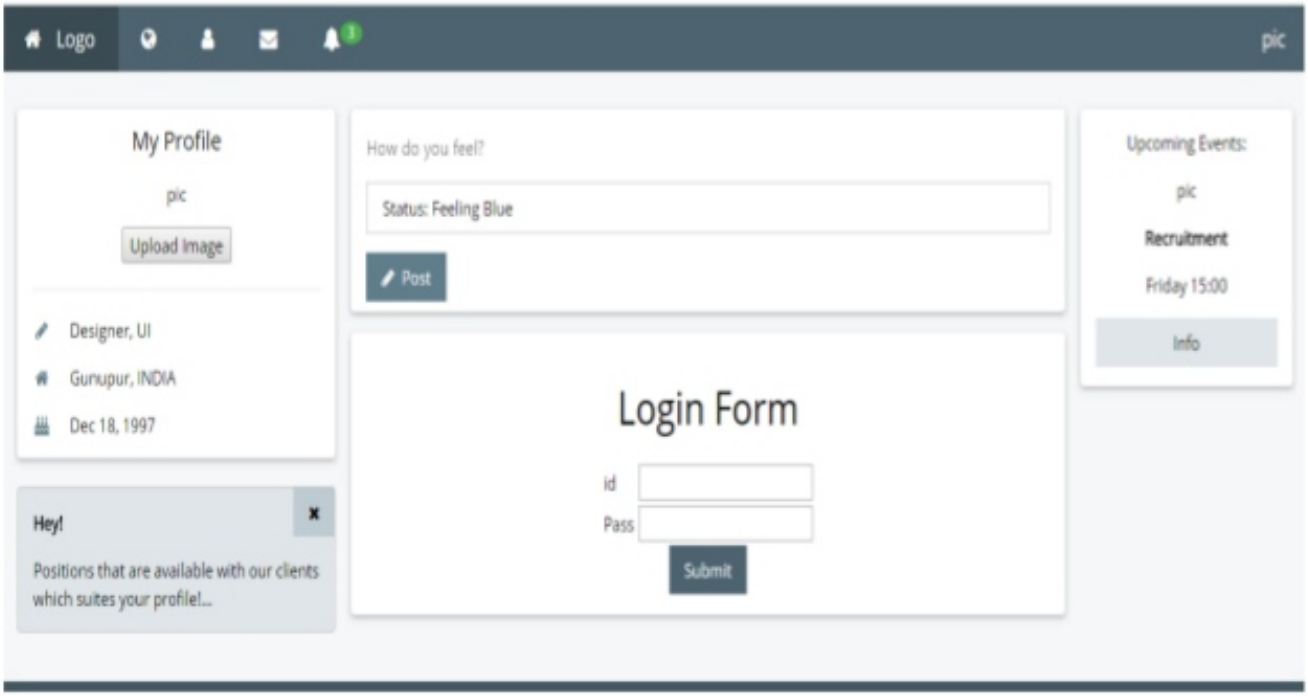
```
</div></center>
<div class="w3-row-padding" style="margin:0 -16px">
</div>
<!-- End Middle Column -->
</div>
<!-- Right Column -->
<div class="w3-col m2">
<div class="w3-card-2 w3-round w3-white w3-center">
<div class="w3-container">
<p>Upcoming Events:</p>
<imgsrc="/w3images/forest.jpg" alt="pic" style="width:100%;">
<p><strong>Recruitment</strong></p>
<p>Friday 15:00</p>
<p><button class="w3-button w3-block w3-theme-l4">Info</button></p>
</div></div>
<!-- End Right Column --></div>
<!-- End Grid --></div>
<!-- End Page Container --></div><br>
<!-- Footer -->
<footer class="w3-container w3-theme-d3 w3-padding-16"></footer>
<script>
// Accordion
functionmyFunction(id) {
```

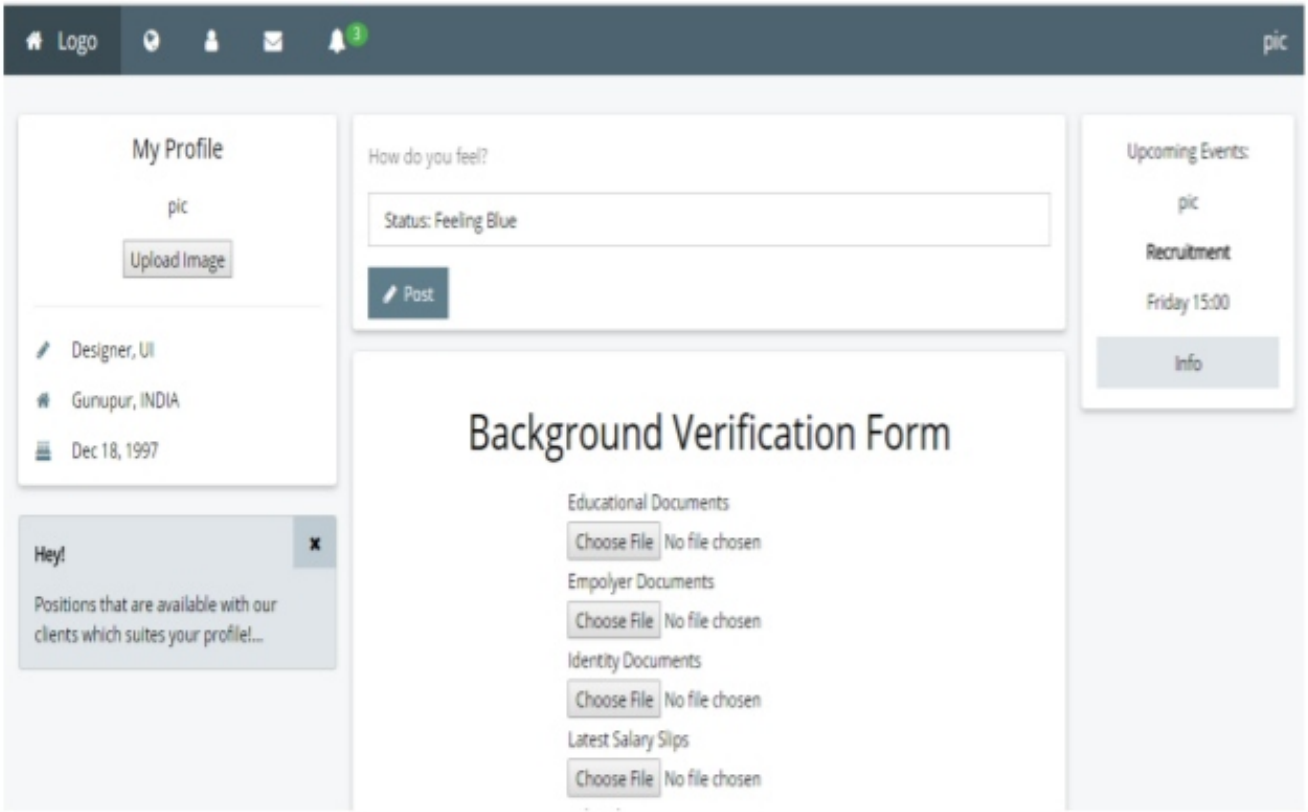
```
var x = document.getElementById(id);
if (x.className.indexOf("w3-show") == -1) {
x.className += " w3-show";
x.previousElementSibling.className += " w3-theme-d1";
    } else {
x.className = x.className.replace("w3-show", "");
x.previousElementSibling.className =
x.previousElementSibling.className.replace(" w3-theme-d1", "");
    }
}
// Used to toggle the menu on smaller screens when clicking on the menu button
functionopenNav() {
var x = document.getElementById("navDemo");
if (x.className.indexOf("w3-show") == -1) {
x.className += " w3-show";
    } else {
x.className = x.className.replace(" w3-show", "");
    }}
</script>
</body>
</html>
```

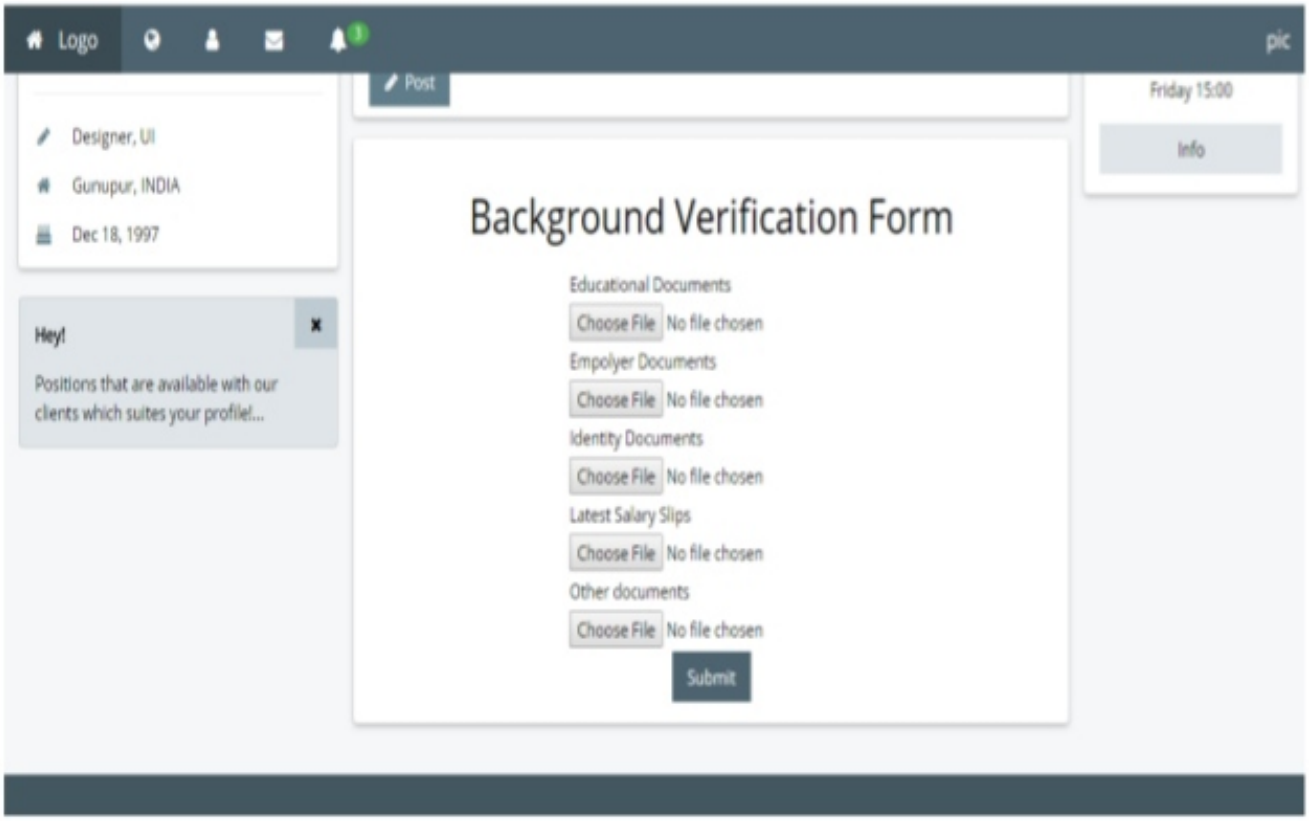
6. SCREENSHOTS






Logo
pic
My Profile
pic
Upload Image
Designer, UI
Gunupur, INDIA
Dec 18, 1997
Hey!
Positions that are available with our clients which suites your profile!...
How do you feel?
Status: Feeling Blue
Post
Login Form
id
Pass
Submit
Upcoming Events:
pic
Recruitment
Friday 15:00
Info


Logo
pic
My Profile
pic
Upload Image
Designer, UI
Gunupur, INDIA
Dec 18, 1997
Hey!
Positions that are available with our clients which suites your profile!...
How do you feel?
Status: Feeling Blue
Post
Background Verification Form
Educational Documents
Choose File No file chosen
Empolyer Documents
Choose File No file chosen
Identity Documents
Choose File No file chosen
Latest Salary Slips
Choose File No file chosen
Upcoming Events:
pic
Recruitment
Friday 15:00
Info


Logo
pic
Post
Friday 15:00
Info
Designer, UI
Gunupur, INDIA
Dec 18, 1997
Hey!
Positions that are available with our clients which suites your profile!...
Background Verification Form
Educational Documents
Choose File No file chosen
Empolyer Documents
Choose File No file chosen
Identity Documents
Choose File No file chosen
Latest Salary Slips
Choose File No file chosen
Other documents
Choose File No file chosen
Submit

7. CONCLUSION

Once the on-boarding and training phase wraps up, the new staff member should be ready to engage in a rewarding long-lasting career. The full cycle recruiting process can indeed be a gruelling experience for all parties involved. But, will the addition of a new, reliable employee for the firm, it is also a much needed and appreciated part of nurturing a successful business.

Even for owners of small enterprises, for peace of mind in hiring the best candidate for a job, following the steps of the recruitment life cycle is well worth the time and effort and is a proven method of reducing turnovers within a company, saving both time and money in the long run.

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2. Vikram Vaswani, "MySQL(TM): The Complete Reference", 6th edition, Mc Graw Hill Education publications.
3. Luke Welling, "PHP and MySQL Web Development Book", 5th edition, Pearson India publications.
4. Larry Ullman, "PHP and MySQL for Dynamic Web Sites", 4th edition, Pearson India publications.

Weblinks

1. To learn about the software required to use, we used, www.wikipidea.org.
2. For more examples for learning, we referred, www.tutorialpoint.com.
3. For learning the PHP and MySQL integration, we referred, www.w3schools.com.

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With Enrollment Number AA/BPL/21-22/INT/171 Successfully completion of Internship On : DATA ANALYTICS

Date : DEC 2022 - JAN 2023

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CERTIFICATE OF INTERNSHIP

This is to certify that **Rudresh Untwal** has successfully completed **2 weeks (or 70 hrs) HTML5+CSS3** Coding Internship.

1) 365 Entertainment - similar to Hotstar.com
2) Blogging - similar to Medium.com
3) CSS3 Animations
4) Voter Registration - Replica of National Voter Service Portal Form 6

The projects were assessed by AI Engine trained by mentors as listed on **https://mentor.suvenconsultants.com**

Your performance was **Enviable** -  in the Online Internship. Wishing you all the best for more internships and a great career.

Your Internship Profile can be viewed on https://internship.suvenconsultants.com/user?u=cnVkcmVzaHVudHdhbDI2QHNjdHBs

Date of Issue: 30-03-2023

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Companies Recruiting ... & Many More

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ADVANCE PYTHON WITH DATA SCIENCE AND MACHINE LEARNING

An

INTERNSHIP REPORT

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

In

Computer Science and Engineering

Submitted to

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BHOPAL (M.P.)

Submitted by

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Department Of Computer Science And Engineering

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY BHOPAL

December – 2021-2022

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1. INTRODUCTION

This Python training program was launched CORECARD SOFTWARE INDIA Pvt.Ltd**.** The symbol Of Expertise under the trainnng of trainee Engineering profile**).** Upon successfully completion of this training I have built a few python mini projects and one major project as well. Along with that I have learned about File Handling concepts and worked on various libraries like Pandas, Matplotlib etc.

Python has emerged as a versatile programming language for Embedded Systems, Web Application Development, Data Science and Artificial Intelligence.

The whole python internship program is delivered in a virtual learning model so that we can learn it from your home. Added to that structured intervention mechanism consisting of selfpaced /live classes and recorded videos, unlimited doubt clearing sessions, specific feedback on your output **that** makes this as one of the best online python internship programs and a unique offering in the Indian education system. Also the institute has provided the entrance scholarship test for this internship program which makes it really affordable to get the internship throughout the country. Apart from technical skills, this program has given us the opportunity to connect with persons of different states.

2. OBJECTIVE

- The main objective of project is to design an algorithm which will tell the fare to be charged for a passenger. Machine learning algorithms are used to develop a regression model.
- The project is about on web scraping. Web scraping is an automatic process of extracting information from web. This project will give us an in-depth idea of web scraping, its comparison with web crawling, and why you should opt for web scraping. I had also learn about the components and working of a web scraper.
- Get hands-on programming exposure in Python programming the way Industry works.
- Build good project based on Python programming by exploring all Python programming constructs.
- Obtain Certification under the Skill India Internship Program.
- Lay foundations for a long term career in Web Development/ AI.
- Get exposure in Standard Industry Practices of Software Development.
- Work on Real Hands on project.
- Learn about different libraries used in Python.

3. ABOUT THE COMPANY

CoreCard is a leading issuer-processor and provider of card management and transaction processing systems. CoreCard offers an array of account management and system of record solutions to support the complex requirements of the evolving global financial services industry. The CoreCard platform provides the market's most feature-rich design for card processing and managing accounts. The platform supports a full range of card products including prepaid/stored-value, fleet, revolving credit, loans, pay-day lending, debit, commercial, government, healthcare and private-label cards.

Website

http://www.corecard.com

Industries

IT Services and IT Consulting

Company size

201-500 employees

Headquarters

Norcross, GA

Type

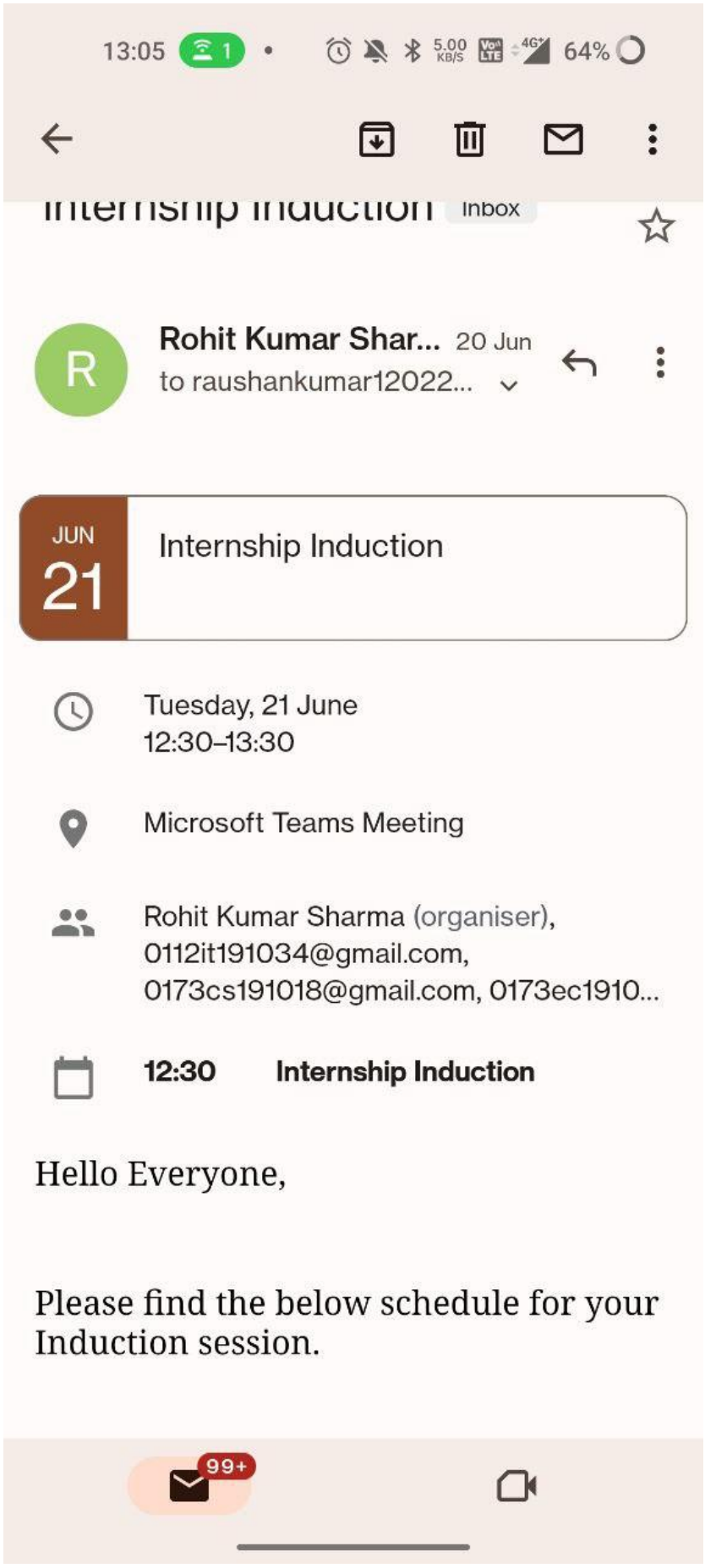
Public Company

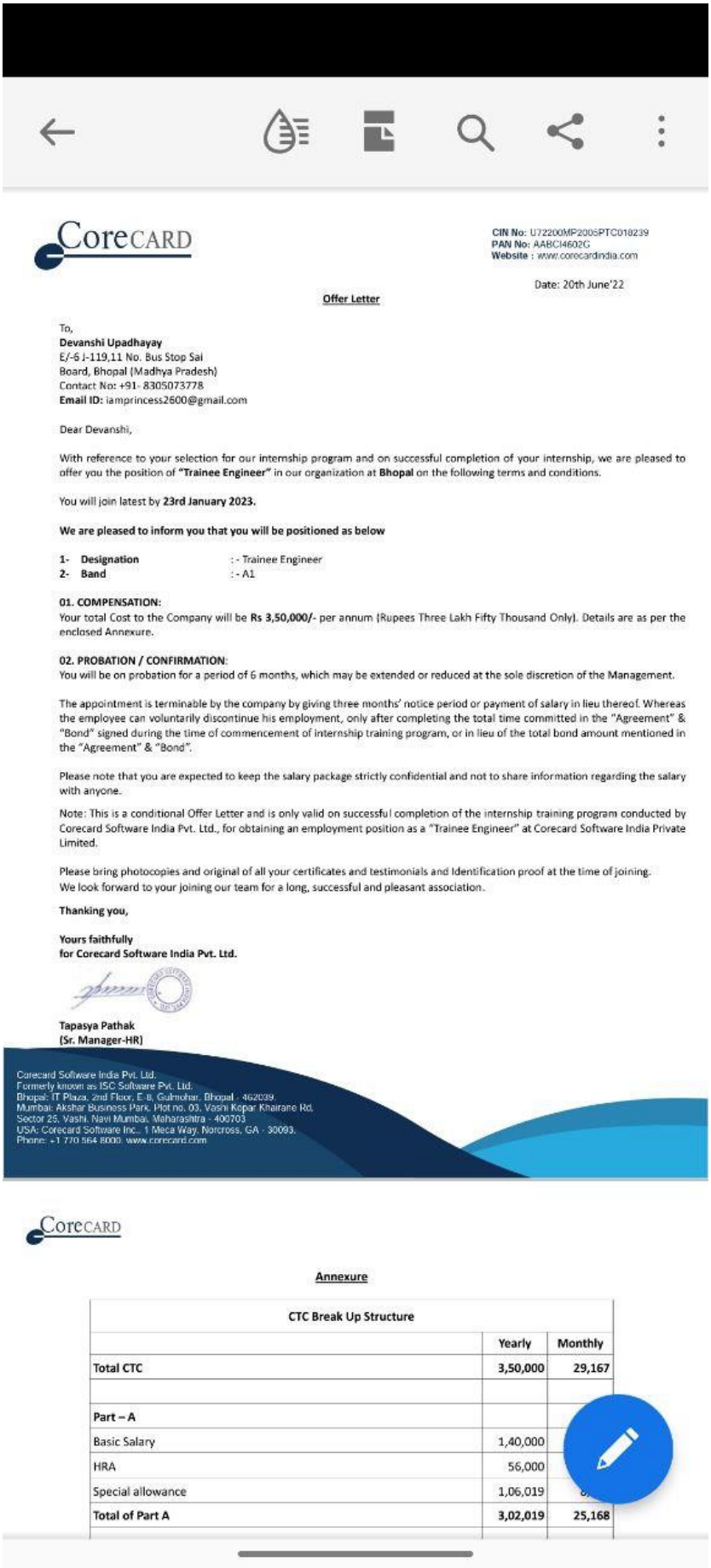
Founded

2001

Specialties

Credit Card Software, prepaid software, bankcard software, fleet software, card management software, card processing software, Revolving Credit Software, Loans System of Record, Prepaid Processing, Credit Processing, Private Label Processing, Card Issuer, Issuer Processing, Visa/Mastercard/Discover, PCI Compliant, Collections, and Credit Origination.


13:05
64%
Internship Induction
Inbox
Rohit Kumar Shar... 20 Jun
to raushankumar12022...
JUN
21
Internship Induction
Tuesday, 21 June
12:30–13:30
Microsoft Teams Meeting
Rohit Kumar Sharma (organiser),
0112it191034@gmail.com,
0173cs191018@gmail.com, 0173ec1910...
12:30 Internship Induction
Hello Everyone,
Please find the below schedule for your Induction session.
99+



CoreCARD

CIN No: U72200MP2005PTC018239
PAN No: AABCI4602G
Website : www.corecardindia.com

Date: 20th June'22

Offer Letter

To,
Devanshi Upadhayay
E/-6 J-119,11 No. Bus Stop Sai
Board, Bhopal (Madhya Pradesh)
Contact No: +91- 8305073778
Email ID: iamprincess2600@gmail.com

Dear Devanshi,

With reference to your selection for our internship program and on successful completion of your internship, we are pleased to offer you the position of **"Trainee Engineer"** in our organization at **Bhopal** on the following terms and conditions.

You will join latest by **23rd January 2023.**

We are pleased to inform you that you will be positioned as below

1- **Designation** : - Trainee Engineer
2- **Band** : - A1

01. COMPENSATION:
Your total Cost to the Company will be **Rs 3,50,000/-** per annum (Rupees Three Lakh Fifty Thousand Only). Details are as per the enclosed Annexure.

02. PROBATION / CONFIRMATION:
You will be on probation for a period of 6 months, which may be extended or reduced at the sole discretion of the Management.

The appointment is terminable by the company by giving three months' notice period or payment of salary in lieu thereof. Whereas the employee can voluntarily discontinue his employment, only after completing the total time committed in the "Agreement" & "Bond" signed during the time of commencement of internship training program, or in lieu of the total bond amount mentioned in the "Agreement" & "Bond".

Please note that you are expected to keep the salary package strictly confidential and not to share information regarding the salary with anyone.

Note: This is a conditional Offer Letter and is only valid on successful completion of the internship training program conducted by Corecard Software India Pvt. Ltd., for obtaining an employment position as a "Trainee Engineer" at Corecard Software India Private Limited.

Please bring photocopies and original of all your certificates and testimonials and Identification proof at the time of joining.
We look forward to your joining our team for a long, successful and pleasant association.

Thanking you,

Yours faithfully
for Corecard Software India Pvt. Ltd.

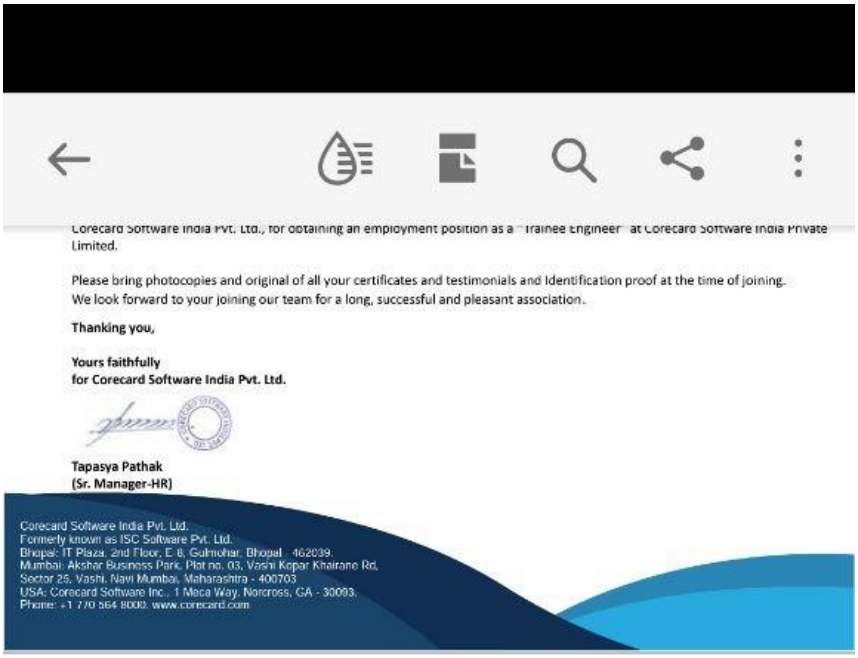
Tapasya Pathak
(Sr. Manager-HR)

Corecard Software India Pvt. Ltd.
Formerly known as ISC Software Pvt. Ltd.
Bhopal: IT Plaza, 2nd Floor, E-8, Gulmohar, Bhopal - 462039.
Mumbai: Akshar Business Park, Plot no. 03, Vashi Kopar Khairane Rd, Sector 25, Vashi, Navi Mumbai, Maharashtra - 400703
USA: Corecard Software Inc., 1 Meca Way, Norcross, GA - 30093.
Phone: +1 770 564 8000. www.corecard.com

CoreCARD

Annexure

CTC Break Up Structure		
	Yearly	**Monthly**
Total CTC	**3,50,000**	**29,167**
Part – A		
Basic Salary	1,40,000	
HRA	56,000	
Special allowance	1,06,019	
Total of Part A	**3,02,019**	**25,168**



Corecard Software India Pvt. Ltd., for obtaining an employment position as a "Trainee Engineer" at Corecard Software India Private Limited.

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Sector 25, Vashi, Navi Mumbai, Maharashtra - 400703
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Phone: +1 770 564 8000. www.corecard.com

CorecARD

Annexure

CTC Break Up Structure		
	Yearly	**Monthly**
Total CTC	**3,50,000**	**29,167**
Part – A		
Basic Salary	1,40,000	11,667
HRA	56,000	4,667
Special allowance	1,06,019	8,835
Total of Part A	**3,02,019**	**25,168**
Part-B		
PF Contribution Employer	16,800	1,400
Gratuity	6,731	561
Total of Part B	**23,531**	**1,961**
Total Salary (Part A + Part B)	**3,25,550**	**27,129**
Part-C		
Less : PF Contribution Employee	16,800	1,400
Less : PF Contribution Employer	16,800	1,400
Less : Gratuity	6,731	561
Total of Part C	**40,331**	**3,361**
Net Salary Take home Before Tax	**2,85,219**	**23,768**
Part D (Other Benefits)		
Employee Family Health Insurance (Sum Assured Rs.5,00,000/-)	12,000	1,000
Employee Personal Accident Insurance (Sum Assured Rs.10,00,000/-)	450	38
Food Coupons	12,000	1,000
Total of Part D	**24,450**	**2,038**
Total CTC	**3,50,000**	

4. DESCRIPTION

- First,the web scraping process is performed. ...
- The scraped data from the seed URL is stored temporarily in the memory. ...
- Next,the scraper’s job is to store the extracted pages while passing them back and forth in a single repository.
- Finally,the scraper has to identify the data points in the stored pages...

DURATION OF INTERNSHIP

This is a 3 months trainning.

Started from 23 June 2022 TO 26 September 2022.

5. LEARNING MODULES

Python Internship Syllabus:

- Introduction to Python.
- Python Data Types.
- Statements.
- Strings.
- List and Tuple.
- Sets and Dictionary.
- Arrays.
- Functions.
- File Handling Concepts.
- Libraries.
- one major Project.

6. ADVANTAGES OF WEB SCRAPING

ADVANTAGES

To endure the success of your business/service, you must act fast and compete in the market. **Web Scraping plays a pivotal role in the process of achieving success and developing the business.** The Web scraping advantages and processes are as follows:

Save Cost

Web Scraping saves cost and time as it reduces the time involved in the data extraction task. These tools once created can be put on automation and hence, there is less dependency on the human workforce.

Accuracy Of Results

Web Scraping beats human data collection hands down. With automated scraping, you get fast and reliable results that can't be humanly possible.

Time To Market Advantage

Accurate results help businesses save time, money, and human labor. This leads to an apparent time-to-market advantage over the competitors.

High Quality

Web Scraping provides access to clean, well-structured, and high-quality data through scraping APIs so that fresh new data can be integrated into the systems.

TOOLS TO BE USED

- **Jupyter Notebook**
- **Ms excel**

LIBRARIES TO BE USED

- Numpy :- Numpy supports multi-dimentional array and matrices , along with large collection of mathematical function to operate on this array.
- Pandas:- Pandas is used to analyze and manipulate data.
- Sklearn:- It is a machine learning algorithm that has various features like classification, regression, and clustering algorithm etc.
- Matplotlib:- matplotlib is comprehensive library for creating statics, animated and interactive visualization in python
- Seaborn:- seaborn is python's data visualization library.

DATASET TO BE USED

- Web Scraping to Create a Dataset using Python The datasets that you find on the internet from various data sources are either created by companies and organizations or are collected from websites. You must have scraped data from web pages by using the Python libraries, but may have stuck while preparing the scraped data to create a dataset.

  - Link-
  - https://drive.google.com/file/d/1mYtTfosZ7rlkBSBjlDKHTcL5qqs2Vx5/view?usp=sharing

7 REAL WORLD

Real world scraping example on Selenium and Beautiful Soup.

Introduction to Selenium and Beautiful Soup

For the uninitiated, let's begin by a brief introduction of the technologies we will be using.

Selenium

Born in 2004, Selenium is an open-sourced automated testing framework that is used to validate web applications across different browsers and platforms.

These test scripts can be built using different programming languages such as Java, C#, PHP, Python, Ruby and Perl.

In this post, we will be using a Selenium Python package (Selenium Web Driver) to create the test scripts.

As a quick introduction to how it works, here's on me working with Selenium off a Jupyter Notebook.

Using python collecting real-world data by web scraping real estate website and doing data wrangling.

In any data science project one of the most asked questions is how to get the data, where is the data. I would say there is plenty of data around you, you just need to extract it. For example, on the internet, there are millions of petabytes of data available and most of it is free. All you need to know is how to extract it and make it useful for your organisation. I would say any type of organisation can make use of the free data available on the internet for their business gains. They can use web scraping to extract it.

For demonstrating web scrapping in this article I will be scraping data from domian.com. Domain.com is a real estate website. I will be scrapping the price, number of bedrooms, number of bathrooms, number of parking, address and location(latitude and longitude) of each house in Melbourne, Australia.

Before diving into python programming you need to know some basics about html.

All the web pages are written in HTML(Hyper Text Markup Language).

- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML elements tell the browser how to display the content

- HTML elements label pieces of content such as “this is a heading”, “this is a paragraph”, “this is a link”, etc.

A simple HTML document looks like this:

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

Where,

- The `<!DOCTYPE html>` declaration defines that this document is an HTML5 document
- The `<html>` element is the root element of an HTML page
- The `<head>` element contains meta information about the HTML page
- The `<title>` element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)
- The `<body>` element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The `<h1>` element defines a large heading
- The `<p>` element defines a paragraph

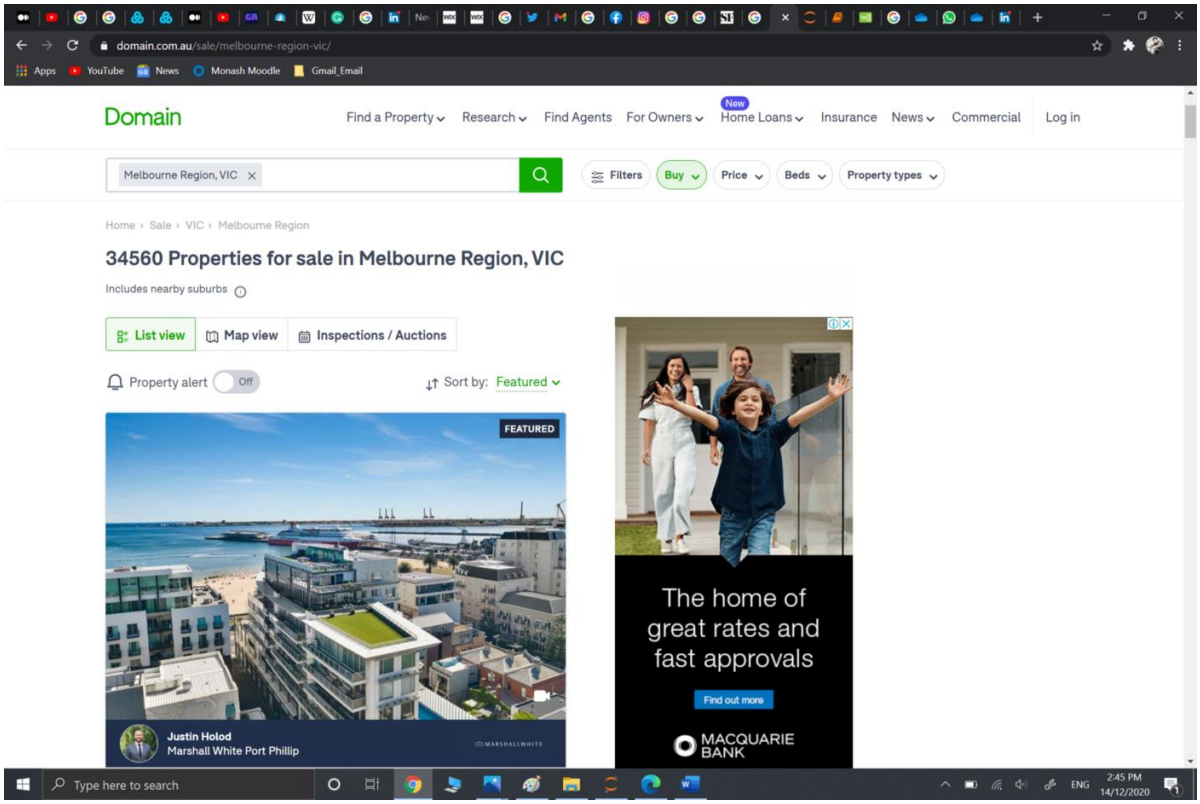
You can get this HTML document of any website by doing a right-click on a webpage and then selecting “View page source”(available in Microsoft Edge and Google Chrome). All the content on the webpage will be inside this HTML document in a well-structured format, all you need to do is extract the required data from this HTML document.

1. Data Collection

There are various libraries available in Python to get this HTML document and parse it into the required format you want.

```
# sample code to get a HTML document and parse it into the required
format you want
from urllib.request import urlopen
from bs4 import BeautifulSouphtml =
urlopen(“https://www.domain.com.au/sale/melbourne-region-vic/")
bsobj = BeautifulSoup(html, “lxml”)
```

In the above code, `urlopen` is extracting HTML document of given web page and `BeautifulSoup` is phrasing it into lxml format. lxml format is easy to understand, you can use another format you want such as json etc.



Search result for melbourne houses on Domain.com

The above screenshot showing "https://www.domain.com.au/sale/melbourne-region-vic/" URL result and it is showing all the properties available for selling in Melbourne but we need to find webpages for each Melbourne properties available on "https://www.domain.com.au/sale/melbourne-region-vic/"(this search result page). We can do it by extracting all the URLs available on this page and storing them into a list. One more thing to add here is that there are 50 pages for Melbourne house search on Domain.com and this is only 1st page so we need to go to every 50 pages and extract all the URLs for each advertised house in Melbourne. We need to apply the loop for 50 iterations, each iteration for each page.

```
from urllib.request import urlopen
from bs4 import BeautifulSoup
import re
# home url of domian.com australia
home_url = "https://www.domain.com.au"
# number of pages of search result are 50, so we need to
```

```
page_numbers = list(range(50))[1:50]
# list to store all the urls of properties
list_of_links = []
# for loop for all 50 search(melbourne region) pages
for page in page_numbers:

    # extracting html document of search page
    html = urlopen(home_url + "/sale/melbourne-region-vic/?sort=price-
desc&page=" + str(page))
    # parsing html document to 'lxml' format
    bsobj = BeautifulSoup(html, "lxml")
    # finding all the links available in 'ul' tag whos 'data-testid'
is 'results'
    all_links = bsobj.find("ul", {"data-testid":
"results"}).findAll("a",
href=re.compile("https://www.domain.com.au/*"))# inner loop to find
links inside each property page because few properties are project so
they have more properties inside their project page
    for link1 in all_links:
        # checking if it is a project and then performing similar
thing I did above
        if 'project' in link1.attrs['href']:
            inner1_html = urlopen(link1.attrs['href'])
            inner1_bsobj = BeautifulSoup(inner1_html, "lxml")
            for link2 in inner1_bsobj.find("div", {"name": "listing-
details__other-listings"}).findAll("a",
href=re.compile("https://www.domain.com.au/*")):
                if 'href' in link2.attrs:
                    list_of_links.append(link2.attrs['href'])
        else:
            list_of_links.append(link1.attrs['href'])
```

You can simply copy and paste the above code and do some modifications according to your needs, and try to run.

You can download my jupyter notebook here (github). This Jupyter notebook contains full detailed description with complete python code.

Above I did a few different things:

1. I used the search page which is sorted by price. I did this so that it will be easier to impute missing price of houses. I will explain it more in data wrangling part below.

2. The Inner loop is used because few properties are not just properties, they are projects and each project have more properties URL links inside their page.

Now we have all the URLs of each property in Melbourne, Australia. Each URL is unique for each property in Melbourne. Our next step will be, go inside each URL and extract price, number of bedrooms, number of bathrooms, number of parking, address and location(latitude and longitude).

```
# removing duplicate links while maintaining the order of urls
abc_links = []
for i in list_of_links:
    if i not in abc_links:
        abc_links.append(i)

# defining required regural expression for data extraction
pattern = re.compile(r'>(.+)<!.*>(.+?)</span>.*')
pattern1 = re.compile(r'>(.+)<.')
pattern2 = re.compile(r'destination=(.+)" rel=.')
basic_feature_list = []# loop to iterate through each url
for link in abc_links:

    # opening urls
    html = urlopen(link)

    # converting html document to 'lxml' format
    bsobj = BeautifulSoup(html, "lxml")

    # extracting address/name of property
    property_name = bsobj.find("h1", {"class": "css-164r41r"})

    # extracting baths, rooms, parking etc
    all_basic_features = bsobj.find("div", {"class": "listing-
details__listing-summary-features css-er59q5"}).findAll("span",
{"data-testid": "property-features-text-container"})

    # extracting property price
    property_price = bsobj.find("div", {"data-testid": "listing-
```

```
details__summary-title"})

    # extracting latitudes and longitudes
    lat_long = bsobj.find("a", {"target": "_blank", 'rel': "noopener
noreferer"})

    # dictionary to store temporary data
    basic_feature_dict = {}

    # few properties does not contain all the 4 features such as
rooms, baths, parkings, area. So need to check
    # how many features they contain
    if len(all_basic_features) == 4:

basic_feature_dict[pattern.findall(str(all_basic_features[0]))[0][1]]
= pattern.findall(str(all_basic_features[0]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[1]))[0][1]]
= pattern.findall(str(all_basic_features[1]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[2]))[0][1]]
= pattern.findall(str(all_basic_features[2]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[3]))[0][1]]
= pattern.findall(str(all_basic_features[3]))[0][0]

    elif len(all_basic_features) == 3:

basic_feature_dict[pattern.findall(str(all_basic_features[0]))[0][1]]
= pattern.findall(str(all_basic_features[0]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[1]))[0][1]]
= pattern.findall(str(all_basic_features[1]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[2]))[0][1]]
= pattern.findall(str(all_basic_features[2]))[0][0]

    elif len(all_basic_features) == 2:

basic_feature_dict[pattern.findall(str(all_basic_features[0]))[0][1]]
= pattern.findall(str(all_basic_features[0]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[1]))[0][1]]
= pattern.findall(str(all_basic_features[1]))[0][0]

    elif len(all_basic_features) == 1:

basic_feature_dict[pattern.findall(str(all_basic_features[0]))[0][1]]
= pattern.findall(str(all_basic_features[0]))[0][0]# putting 'none' if
price is missing
```

```
    if property_price is None:
        basic_feature_dict['price'] = None

    else:
        basic_feature_dict['price'] =
pattern1.findall(str(property_price))[0]

    # putting 'none' if property name/address is missing
    if property_name is None:
        basic_feature_dict['name'] = None

    else:
        basic_feature_dict['name'] =
pattern1.findall(str(property_name))[0]

    # putting 'none' if latitude and logitude are missing
    if lat_long is None:
        basic_feature_dict['lat'] = None
        basic_feature_dict['long'] = None

    else:
        basic_feature_dict['lat'] =
pattern2.findall(str(lat_long))[0].split(',')[0]
        basic_feature_dict['long'] =
pattern2.findall(str(lat_long))[0].split(',')[1]# appending all the
data into a list
    basic_feature_list.append(basic_feature_dict)
```

Now, the output of the above code gives us a list of dictionaries with all the available extracted data. In the below code we will be converting it into many individual lists because we have to do little more cleaning and extraction of above-extracted data and it will be easier to do in lists.

```
# creating empty lists
beds_list = []
baths_list = []
parking_list = []
area_list = []
name_list = []
lat_list = []
long_list = []
price_list = []# interating through list created above with data
for row in basic_feature_list:

    # checking if the row cointains 'Beds', 'Bed' or nothing
    if 'Beds' in row:
        beds_list.append(row['Beds'])
```

```
    elif 'bed' in row:
        beds_list.append(row['Bed'])
    else:
        beds_list.append(None)

    # checking if the row cointains 'Baths', 'Bath' or nothing
    if 'Baths' in row:
        baths_list.append(row['Baths'])
    elif 'Bath ' in row:
        baths_list.append(row['Bath'])
    else:
        baths_list.append(None)

    # checking if the row cointains 'Parking', '-' or nothing
    if 'Parking' in row and row['Parking'] != '-':
        parking_list.append(row['Parking'])
    else:
        parking_list.append(None)

    # checking if the row cointains ' ', or nothing. Because empty
space (i.e. ' ') reprsents area
    if ' ' in row:
        area_list.append(row[' '])
    else:
        area_list.append(None)# checking if the row cointains 'name'
that is address of property
    if 'name' in row:
        name_list.append(row['name'])
    else:
        name_list.append(None)

    # checking if the row cointains 'price'
    if 'price' in row:
        price_list.append(row['price'])
    else:
        price_list.append(None)

    # checking if the row cointains 'lat' that is lattitude of
property
    if 'lat' in row:
        lat_list.append(row['lat'])
    else:
        lat_list.append(None)

    # checking if the row cointains 'long' that is lattitude of
property
    if 'long' in row:
        long_list.append(row['long'])
    else:
        long_list.append(None)
```

Now, we have all the data in list format.

2. Data Wrangling

Few people do not want to show the price of the property so they do not put price in their property advertisement. Some times they do not put anything in the price column and sometimes they put something like ‘contact dealer’ or ‘after inspection price’ or something else. And also some people do not put directly price they put a range of price or price with some extra text before the price or after the price or both. So we need to handle all these situations and extract only the price and if the price is not given then put ‘none’ their. Below code is doing the same.

```
import random# creating a new empty price list
actual_price_list = []# defining some regural expressions, they will
be used to extract price of properties
pattern1 = re.compile(r'\$\s?([0-9,\.]+).*\s?.+\s?\$\s?([0-9,\.]+)')
pattern2 = re.compile(r'\$([0-9,\.]+)')# interating through price_list
for i in range(len(price_list)):

    # check that a price is given or range of price is given

    if str(price_list[i]).count('$') == 1:
        b_num = pattern2.findall(str(price_list[i]))

        # checking length of string, if it is less than or equal to 5
then price is in millions so need to convert the price
        if len(b_num[0].replace(',', '')) > 5:
            actual_price_list.append(float(b_num[0].replace(',', '')))
        else:
            actual_price_list.append(float(b_num[0].replace(',',
''))*1000000)

    elif str(price_list[i]).count('$') == 2:
        a_num = pattern1.findall(str(price_list[i]))
        random_error = random.randint(0, 10000)

        # checking length of string, if it is less than or equal to 5
then price is in millions so need to convert the price
        if len(a_num[0][0].replace(',', '')) > 5 and
len(a_num[0][1].replace(',', '')) > 5:
```

```
            # to take average price between two price range given
            avg_price = (float(a_num[0][0].replace(',', '')) +
float(a_num[0][1].replace(',','')))/2
        else:
            avg_price = (float(a_num[0][0].replace(',', '')) +
float(a_num[0][1].replace(',','')))/2)*1000000

        # adding or subtracting the amount from the average price by
normally distributed generated random number
        avg_price = avg_price + random_error
        actual_price_list.append(avg_price)
    else:
        actual_price_list.append('middle_price')
```

There are alot of missing values in price because many people do not want to give or show house price on the website. Now we need to impute the missing price and I came up with a trick.

The trick is that we sort houses by their price then all the houses with or without the shown price will be sorted. The sorting by the website is done using price given by the owners of the houses to the website but it is not shown on the website for users. This is why we extracted houses data from the website when website results are sorted by price.

Let us understand it using an example, suppose there are 10 houses and price of two houses is missing but we can sort houses according to their price, so 1st we sort them according to their price then we see that price of house 4 and house 5 is missing so we will take mean of the price of house 3 and house 6. And then impute missing prices with that mean value. Similar kind of thing we will be doing in the below code.

```
# for loop to impute missing values at the start of list, because here
we cannot take mean
for i in range(len(actual_price_list)):
    if actual_price_list[i] != 'middle_price':
        for a in range(i, -1, -1):
```

```
            actual_price_list[a] = actual_price_list[i]
        break# here we will be taking mean and then add random number
with same standard deviation normal distribution and then impute it
for i in range(len(actual_price_list)):
    if actual_price_list[i] == 'middle_price':
        for j in range(i, len(actual_price_list)):
            if actual_price_list[j] != 'middle_price':
                mid = (actual_price_list[i-1] +
actual_price_list[j])/2
                if actual_price_list[j] > 12000000:
                    for k in range(i, j):
                        random_error = random.randint(-1000000,
1000000)
                        mid = mid + random_error
                        actual_price_list[k] = mid
                    i = j
                    break
                elif actual_price_list[j] > 5000000:
                    for k in range(i, j):
                        random_error = random.randint(-100000, 100000)
                        mid = mid + random_error
                        actual_price_list[k] = mid
                    i = j
                    break
                else:
                    for k in range(i, j):
                        random_error = random.randint(-10000, 10000)
                        mid = mid + random_error
                        actual_price_list[k] = mid
                    i = j
                    break
            elif j == len(actual_price_list)-1:
                for n in range(i, len(actual_price_list)):
                    random_error = random.randint(-1000, 1000)
                    a_price = actual_price_list[i-1]
                    a_price = a_price + random_error
                    actual_price_list[n] = a_price
                break
```

Creating Dataframe.

```
import pandas as pdhouse_dict = {}house_dict['Beds'] = beds_list
house_dict['Baths'] = baths_list
house_dict['Parking'] = parking_list
house_dict['Area'] = area_list
house_dict['Address'] = name_list
house_dict['Latitude'] = lat_list
house_dict['Longitude'] = long_list
house_dict['Price'] = actual_price_listhouse_df =
```

```
pd.DataFrame(house_dict)
house_df.info()
```

'area' column have many null values which cannot be imputed so we will be deleting 'area' column.

```
house_df.drop('Area', axis=1, inplace=True)
```

Also converting beds, baths, parking string type into numeric type.

```
house_df["Beds"] = pd.to_numeric(house_df["Beds"])
house_df["Baths"] = pd.to_numeric(house_df["Baths"])
house_df["Parking"] = pd.to_numeric(house_df["Parking"])
```

Now perform some explanatory data analytics to find problems in the data and then solve those issues. For example use scatter plot to check outliers in the data or use histogram to see the distribution of data etc.

```
# scatter plot
house_df.plot.scatter(x='Beds',
                      y='Baths')# histogram
house_df["Price"].plot.hist(bins = 50)
```

Data cleansing is an iterative process. The first step of the cleansing process is data auditing. In this step, we identify the types of anomalies that reduce the data quality. Data auditing is about programmatically checking the data using some validation rules that are pre-specified, and then creating a report of the quality of the data and its problems. We often apply some statistical tests in this step for examining the data.
Data Anomalies can be classified at a high level into three categories:

1. Syntactic Anomalies:
   describe characteristics concerning the format and values used for representation of the entities. Syntactic anomalies such as: lexical errors, domain format errors, syntactical error and irregularities.

2. Semantic Anomalies:
   hinder the data collection from being a comprehensive and non-redundant representation of the mini-world. These types of anomalies include: Integrity constraint violations, contradictions, duplicates and invalid tuples.

3. Coverage Anomalies:
   decrease the amount of entities and entity properties from the mini-world that are represented in the data collection. Coverage anomalies are categorized as: missing values and missing tuples.

There are many ways to handle these anomalies, I will not be going in details on how to handle these anomalies because our extracted data does not have these anomalies.

Data can also be transformed according to the need. This problem of predicting house price is a regression problem. If it is a linear regression problem then we can perform some transformation to make data satisfy linear regression assumptions.

We can add or create new features using existing features in the data set so that we can make data more enriched. I am creating a new column which will contain the distance of the house from the city(Flinder Street Station, Melbourne).

Missing values

Source of missing values:

Data Extraction: It is possible that there are problems with extraction process. In such cases, we should double-check for correct data with data guardians. Some hashing procedures can also be used to make sure that data extraction is correct. Errors at data extraction stage are typically easy to find and can be corrected easily as well.

Data collection: These errors occur at time of data collection and are harder to correct.

They can be categorized in four types:

- Missing completely at random: This is a case when the probability of missing variable is same for all observations. For example: respondents of data collection process decide that they will declare their earning after tossing a fair coin. If an head occurs, respondent declares his / her earnings & vice versa. Here each observation has equal chance of missing value.
- Missing at random: This is a case when variable is missing at random and missing ratio varies for different values / level of other input variables. For example: We are collecting data for age and female has higher missing value compare to male.
- Missing that depends on unobserved predictors: This is a case when the missing values are not random and are related to the unobserved input variable. For example: In a medical study, if a particular diagnostic causes discomfort, then there is higher chance of drop out from the study. This missing value is not at random unless we have included “discomfort” as an input variable for all patients.

- Missing that depends on the missing value itself: This is a case when the probability of missing value is directly correlated with missing value itself. For example: People with higher or lower income are likely to provide non-response to their earning.

According to the research and after performing EDA(explanatory data analytics) you can safely find out what type of missingness in your data. Our extracted data is Missing completely at random and data set is huge so I have deleted all the rows with any 'none' value.

```
import mathcleaned_house_df =
house_df.dropna(how='any')cleaned_house_df.reset_index(drop = True,
inplace = True)
# radius of earth is 6378
r = 6378
dis_to_city = []
for i in range(len(cleaned_house_df)):

    lat1_n = math.radians(-37.818078)
    lat2 = math.radians(float(cleaned_house_df['Latitude'][i]))

    lon1_n = math.radians(144.96681)
    lon2 = math.radians(float(cleaned_house_df['Longitude'][i]))

    lon_diff_n = lon2 - lon1_n
    lat_diff_n = lat2 - lat1_n

    a_n = math.sin(lat_diff_n / 2)**2 + math.cos(lat1_n) *
math.cos(lat2) * math.sin(lon_diff_n / 2)**2
    c_n = 2 * math.atan2(math.sqrt(a_n), math.sqrt(1 - a_n))

    dis_to_city.append(round(r*c_n, 4))

cleaned_house_df['distance_to_city'] = dis_to_city
```

The final step is to export Dataframe to any other tabular format file like excel file or CSV file etc.

```
# exporting to csv file
cleaned_house_df.to_csv('real_estate_data_csv.csv', index=False)#
exporting to excel file
cleaned_house_df.to_excel('real_estate_data_excel.xlsx', index=False)
```

ROAD MAP

- Download Dataset
- Data Pre-processing
- Splitting Data
- Training Data on Machine Learning Algorithm
- Predicting model accuracy
- Visualize the data
- Predicting new dataset
- Visualizing Predicted Data

DATA PRE-PROCESSING

A real world data generally contains noise, missing values, and may be in an unstable format while we cannot be directly used for machine learning model. Data Pre-processing is required tasks for cleaning the data and making suitable for a machine learning model which also increases the accuracy and efficiency for machine learning model.

In this dataset some problems that may affect model are:

1. Fare amount should not be 0 or ‘negatine’ .
2. Pickup location should not equal drop off location.
3. Passenger count should not 0, ‘negative’, and more than 7.

DATA AFTER PRE-PROCESSING

fare_amount	passenger_count	Distance
7.5	1	1.683322752
7.7	1	2.457589884
12.9	1	5.03637719
5.3	3	1.661683458
16	5	4.475449963
24.5	5	11.73101488
9.7	1	2.332711009
12.5	1	4.889416888
6.5	1	2.250857622
3.3	5	0.302251693
10.9	1	3.581250827
6.9	1	1.3099499
9.7	2	1.716277422
4.9	1	0.729965549
10.5	2	2.515950072
12	1	1.790319253
4.9	1	1.034703611
10.5	1	2.490243761
5	2	0.959468859
4.1	2	1.261388025
7.7	2	1.751762582
12.9	5	6.193235947

SPLITTING DATASET

Data splitting is the act of partitioning available data into. two portions, usually for cross-validatory purposes. One. portion of the data is used to develop a predictive model. and the other to evaluate the model's performance.

We can partitioned the dataset into training and testing sample manually or using sklearn.train_test_split(). Mostly train_test_split() is prefered because it split data randomly.

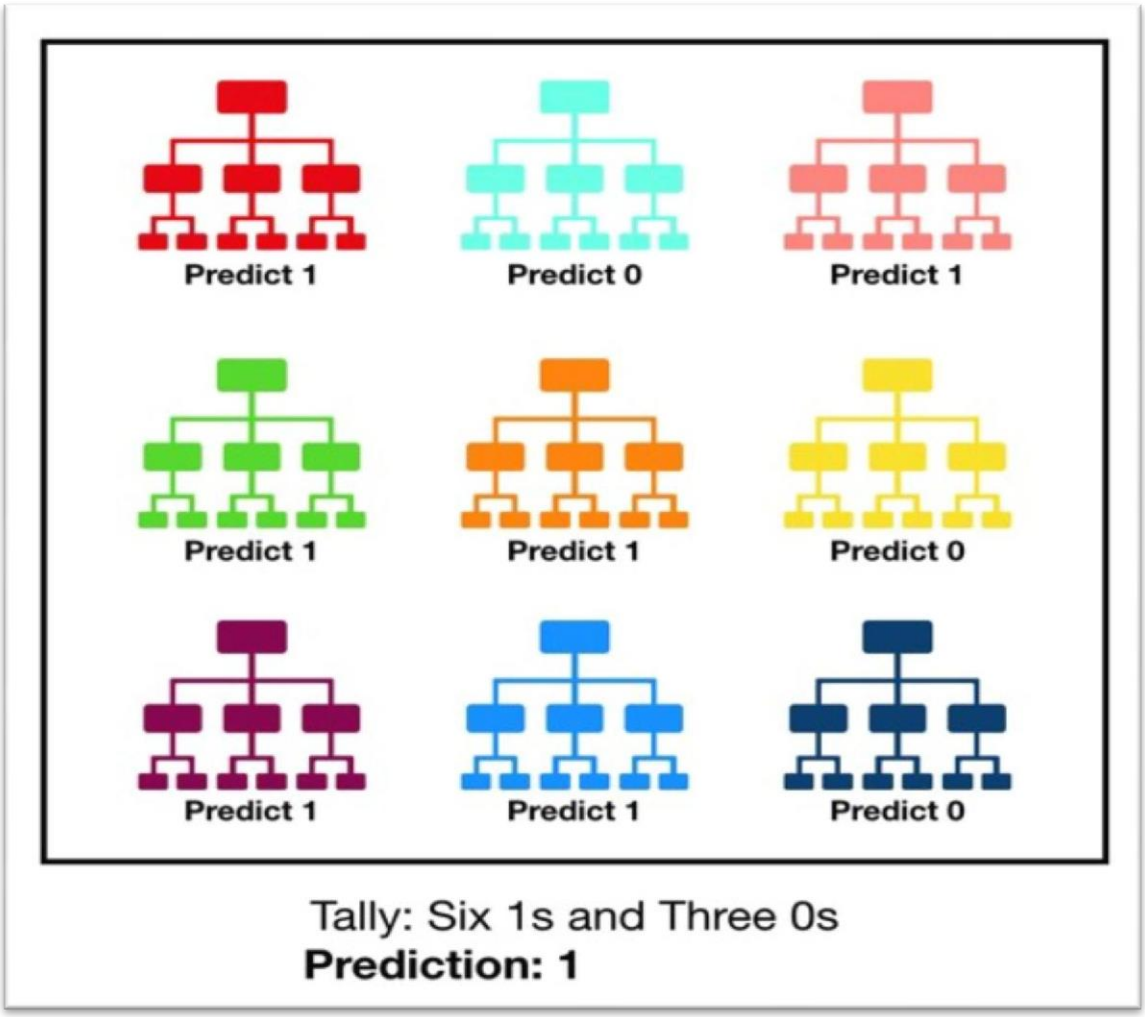
TRAINING DATA

- Training data is the data you use to train a machine learning model to predict the outcome you design your model to predict.
- We are implementing Random Forest Algorithm for the prediction.

Random Forest Regressor Algorithm :

- A random forest is a meta estimator that fits a number of classifying decision trees on various sub-samples of the dataset and uses averaging to improve the predictive accuracy and control overfitting. The sub-sample size is controlled with the max_samples parameter if bootstrap=True (default), otherwise the whole dataset is used to build each tree.

VISUALIZATION OF A RANDOM FOREST MODEL MAKING A PREDICTION



PREDICTING ACCURACY OF MODEL

- Predictive accuracy should be **measured based on the difference between the observed values and predicted values**.
- We will use MSE(mean squared error)
- The **mean squared error (MSE)** is a common way to measure the prediction accuracy of a model
- The lower the value for MSE, the better a model is able to predict values accurately.

DATA VISUALIZATION

- Data visualization is the discipline of trying to understand data by placing it in a visual context so that patterns, trends and correlations that might not otherwise be detected can be exposed.
- plots python has an excellent library for visualizing the data name seaborn

Seaborn:

- Seaborn is a Python data visualization library based on Matplotlib. It provides a high-level interface for creating attractive graphs.
- Seaborn has a lot to offer. You can create graphs in one line that would take you multiple tens of lines in Matplotlib. Its standard designs are awesome and ITalso has a nice interface for working with pandas dataframes

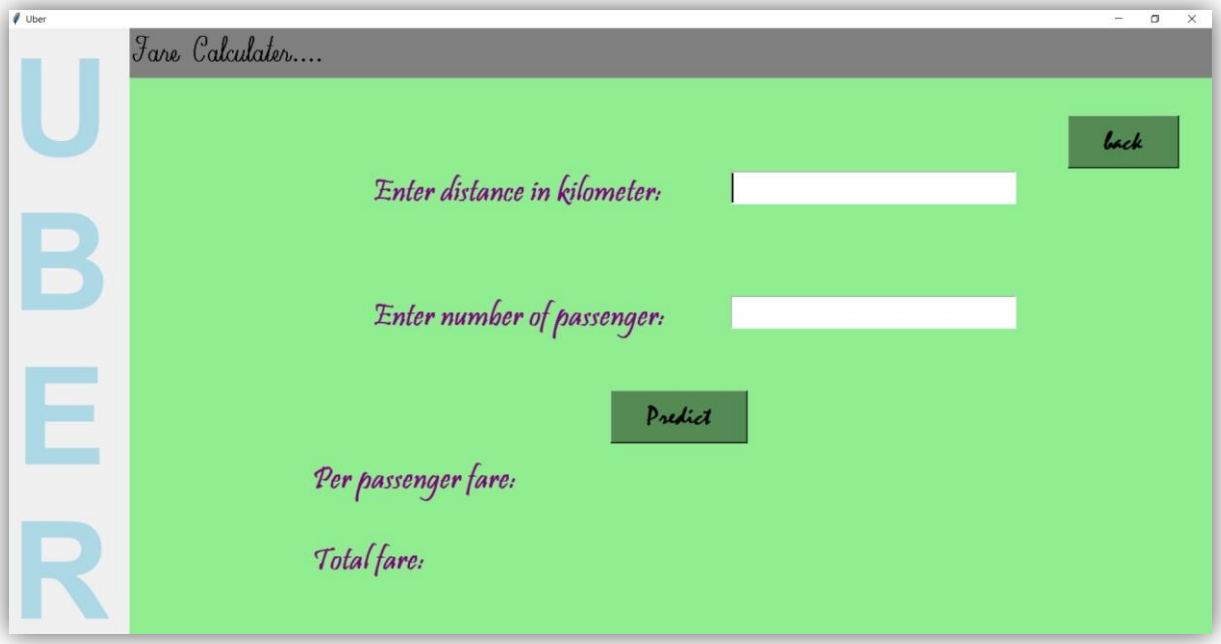
▶ .14. GUI USING TKINTER

- Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is the most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter is the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.
- To create a tkinter app:
- Importing the module – tkinter
- Create the main window (container)
- Add any number of widgets to the main window

HOME SCREEN


Uber
Fare Calculater....
U
B
E
R
Using...
Kilometer
Using...
Long & Lat
Using...
Address

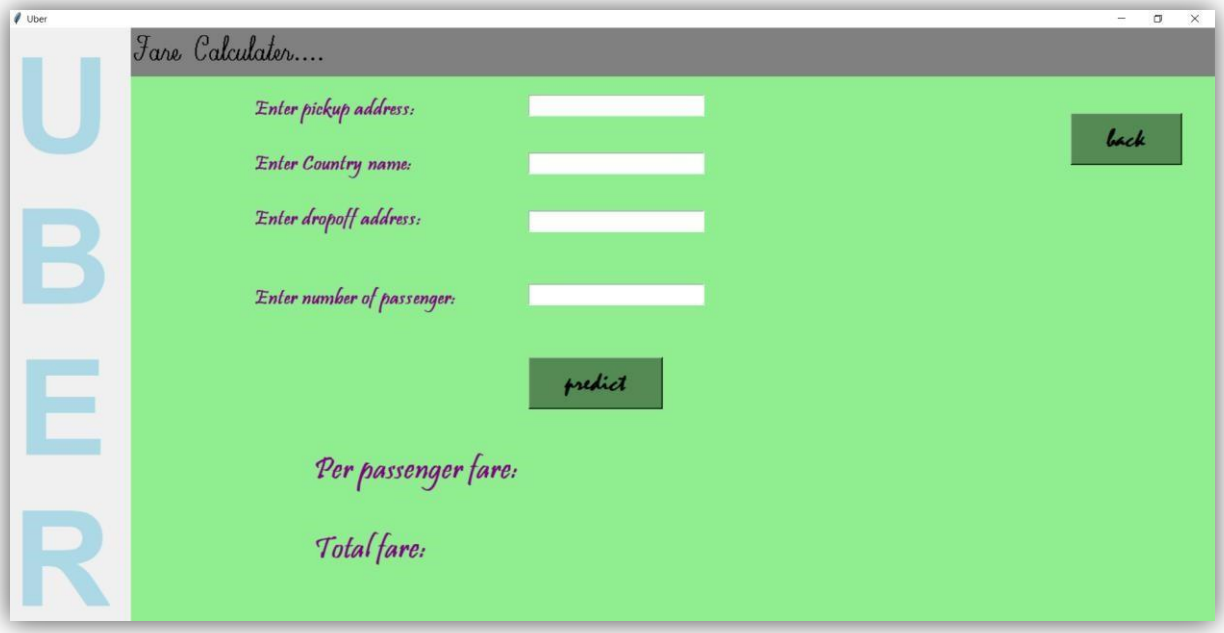
USING DISTANCE



1USING LON & LAT VALUES



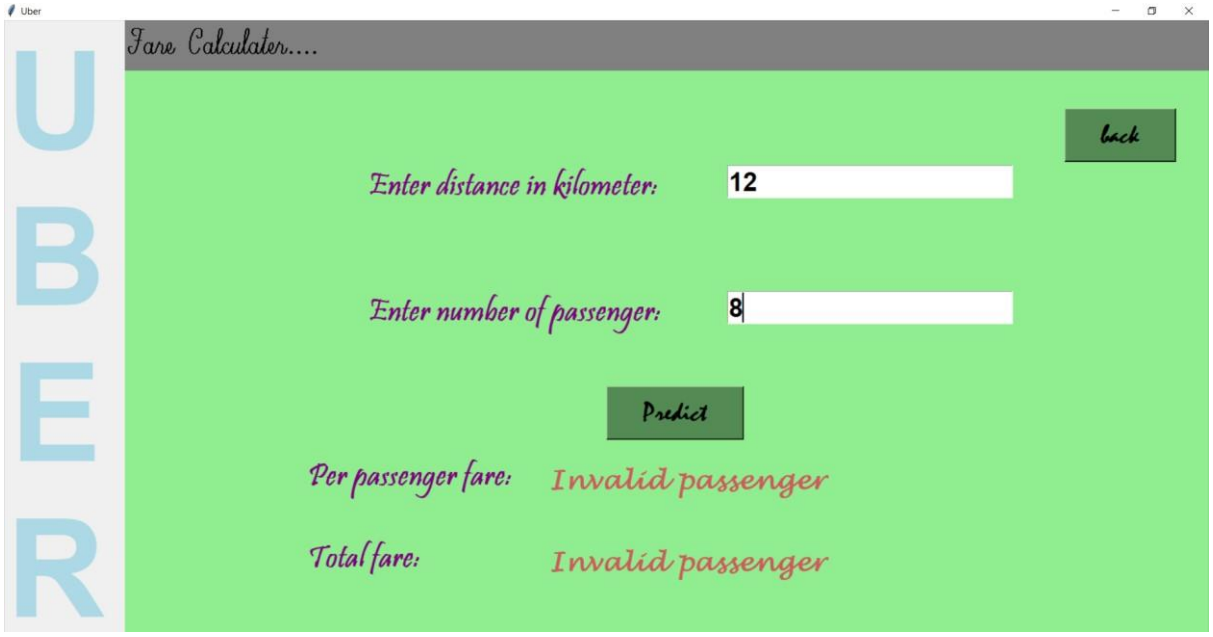
USING ADDRESS



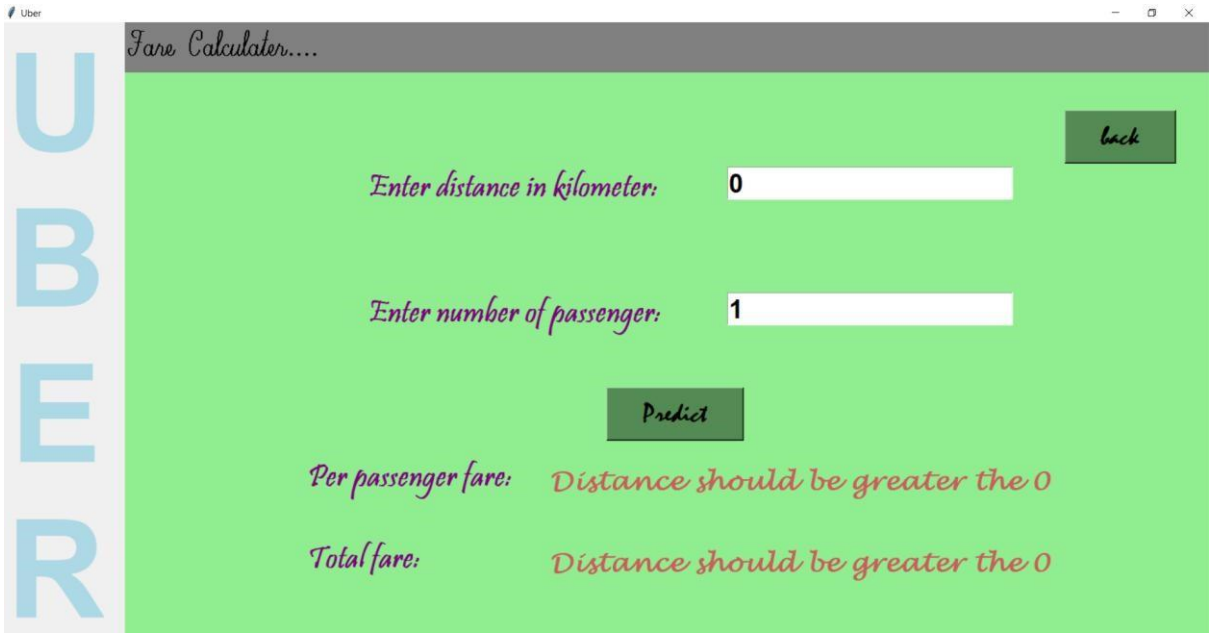
SNAP S OF OUTPUT



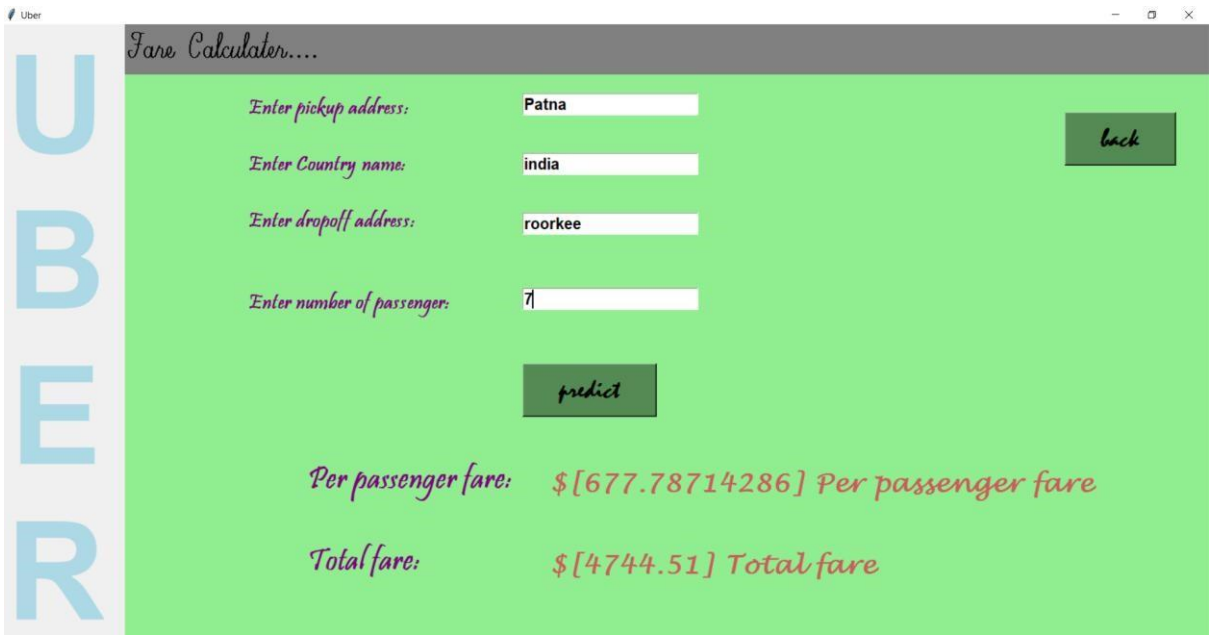
PASSENGER SHOULD BE LESS THEN 8



Distance should be greater then 0



USING GEO-ENCODER



CONCLUSION

I believe the trial has shown conclusively that it is both possible and desirable to use :

Advance Python as the principal teaching language:

- It is Free (as in both cost and source code).
- It is a flexible tool that allows both the teaching of traditional procedural programming and modern OOP; It can be used to teach a large number of transferable skills;
- It is a real-world programming language that can be and is used in academia and the commercial world;
- It appears to be quicker to learn and, in combination with its many libraries, this offers the possibility of more rapid student development allowing the course to be made more challenging and varied;

FASTFIND FIRM

Pratik Ahirwar

ahirwarpratik0@gmail.com

NRI INSTITUTE OF RESEARCH AND TECHNOLOGY BHOPAL

Dear Pratik Ahirwar,

We are pleased to extend this offer letter for the position of an intern at **FastFindFirm** in the domain of **Ethical Hacking with Cyber Security Internship Program**. We are thrilled to work with you as a team to build a greater tomorrow and achieve our goals.

During your internship, the concentration will be on helping you understand the theoretical concepts with their practicality and implications to help you connect your classroom knowledge and on-field experience. We will be happy to train you to learn new skills which are extremely helpful in the professional setting.

We are all elated to have you join our team.

Joining Date: 17th October, 2022

Tenure of Internship: 2.5 Months

Sincerely,
Team FastFindFirm.

FASTFINDFIRM

Letter of Recommendation

Name: Pratik Ahirwar
Email id:ahirwarpratik0@gmail.com
Period of internship:21/10/2022-08/02/2023

To Pratik Ahirwar

It is our privilege to write this letter to recommend the intern as a person who has performed exceptionally well in our Training Program and has completed the given tasks and assignments on time. The dedication and the quality of work was at par with the professional standards.

The intern has a good grasp of concepts and has the ability to use the knowledge obtained in internship in real life examples and projects. The Intern has worked on the project in the domain of **Ethical hacking with cyber security** and the project of the intern
was -Report on Kali Linux Operating System

Also, this project was selected as one of the excellent project in the entire Internship Program.

Regards,
FastFindFirm,
Mumbai, India

Verify at https://verification.givemycertificate.com/v/e2bd2776-a452-480b-bd9c-9234b87e5c8d

ARIST AUTOMATION

ISO 9001:2015 Certified Company

9001:2015

This Credential is awarded to Mr./Ms. HARSHAL RAJPUT
With Enrollment Number AA/BPL/21-22/INT/171 Successfully completion of Internship On : DATA ANALYTICS

Date : DEC 2022 - JAN 2023

MSME
सूक्ष्म, लघु एवं मध्यम उद्योग
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CERTIFICATE OF INTERNSHIP

This is to certify that **Rudresh Untwal** has successfully completed **2 weeks (or 70 hrs) HTML5+CSS3** Coding Internship.

1) 365 Entertainment - similar to Hotstar.com
2) Blogging - similar to Medium.com
3) CSS3 Animations
4) Voter Registration - Replica of National Voter Service Portal Form 6

The projects were assessed by AI Engine trained by mentors as listed on **https://mentor.suvenconsultants.com**

Your performance was **Enviable** -  in the Online Internship. Wishing you all the best for more internships and a great career.

Your Internship Profile can be viewed on https://internship.suvenconsultants.com/user?u=cnVkcmVzaHVudHdhbDI2QHNjdHBs

Date of Issue: 30-03-2023

This is auto generated by our ai engine

Rocky Jagtiani

Domain Expert: Rocky Jagtiani
Technical Head - SCTPL
https://suvenconsultants.com

Domain Expert: Niraj Sharma
UI/UX expert and Software Engineer
NeoSOFT Technologies

Domain Expert: Tarik Sheth
MCP,HP(AIS),CSTE,CSQA,CSTM
VP(in Investment Banking MNC)

Companies Recruiting ... & Many More

qtech Kingston Technology SPORTZ Interactive IT'S THOUGHTFUL. IT'S Rustomjee GRAAND PRIX Bespoke Luxury Ken Blanchard Companies The Leadership Difference. iksula Technology • Outsourcing • Marketing Tech Mahindra Deloitte.

ADVANCE PYTHON WITH DATA SCIENCE AND MACHINE LEARNING

An

INTERNSHIP REPORT

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

In

Computer Science and Engineering

Submitted to

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA,

BHOPAL (M.P.)

Submitted by

DEVANSHI UPADHYAY 0115CS191021

Department Of Computer Science And Engineering

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY BHOPAL

December – 2021-2022

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1. INTRODUCTION

This Python training program was launched CORECARD SOFTWARE INDIA Pvt.Ltd**.** The symbol Of Expertise under the trainnng of trainee Engineering profile**).** Upon successfully completion of this training I have built a few python mini projects and one major project as well. Along with that I have learned about File Handling concepts and worked on various libraries like Pandas, Matplotlib etc.

Python has emerged as a versatile programming language for Embedded Systems, Web Application Development, Data Science and Artificial Intelligence.

The whole python internship program is delivered in a virtual learning model so that we can learn it from your home. Added to that structured intervention mechanism consisting of selfpaced /live classes and recorded videos, unlimited doubt clearing sessions, specific feedback on your output **that** makes this as one of the best online python internship programs and a unique offering in the Indian education system. Also the institute has provided the entrance scholarship test for this internship program which makes it really affordable to get the internship throughout the country. Apart from technical skills, this program has given us the opportunity to connect with persons of different states.

2. OBJECTIVE

- The main objective of project is to design an algorithm which will tell the fare to be charged for a passenger. Machine learning algorithms are used to develop a regression model.
- The project is about on web scraping. Web scraping is an automatic process of extracting information from web. This project will give us an in-depth idea of web scraping, its comparison with web crawling, and why you should opt for web scraping. I had also learn about the components and working of a web scraper.
- Get hands-on programming exposure in Python programming the way Industry works.
- Build good project based on Python programming by exploring all Python programming constructs.
- Obtain Certification under the Skill India Internship Program.
- Lay foundations for a long term career in Web Development/ AI.
- Get exposure in Standard Industry Practices of Software Development.
- Work on Real Hands on project.
- Learn about different libraries used in Python.

3. ABOUT THE COMPANY

CoreCard is a leading issuer-processor and provider of card management and transaction processing systems. CoreCard offers an array of account management and system of record solutions to support the complex requirements of the evolving global financial services industry. The CoreCard platform provides the market's most feature-rich design for card processing and managing accounts. The platform supports a full range of card products including prepaid/stored-value, fleet, revolving credit, loans, pay-day lending, debit, commercial, government, healthcare and private-label cards.

Website

http://www.corecard.com

Industries

IT Services and IT Consulting

Company size

201-500 employees

Headquarters

Norcross, GA

Type

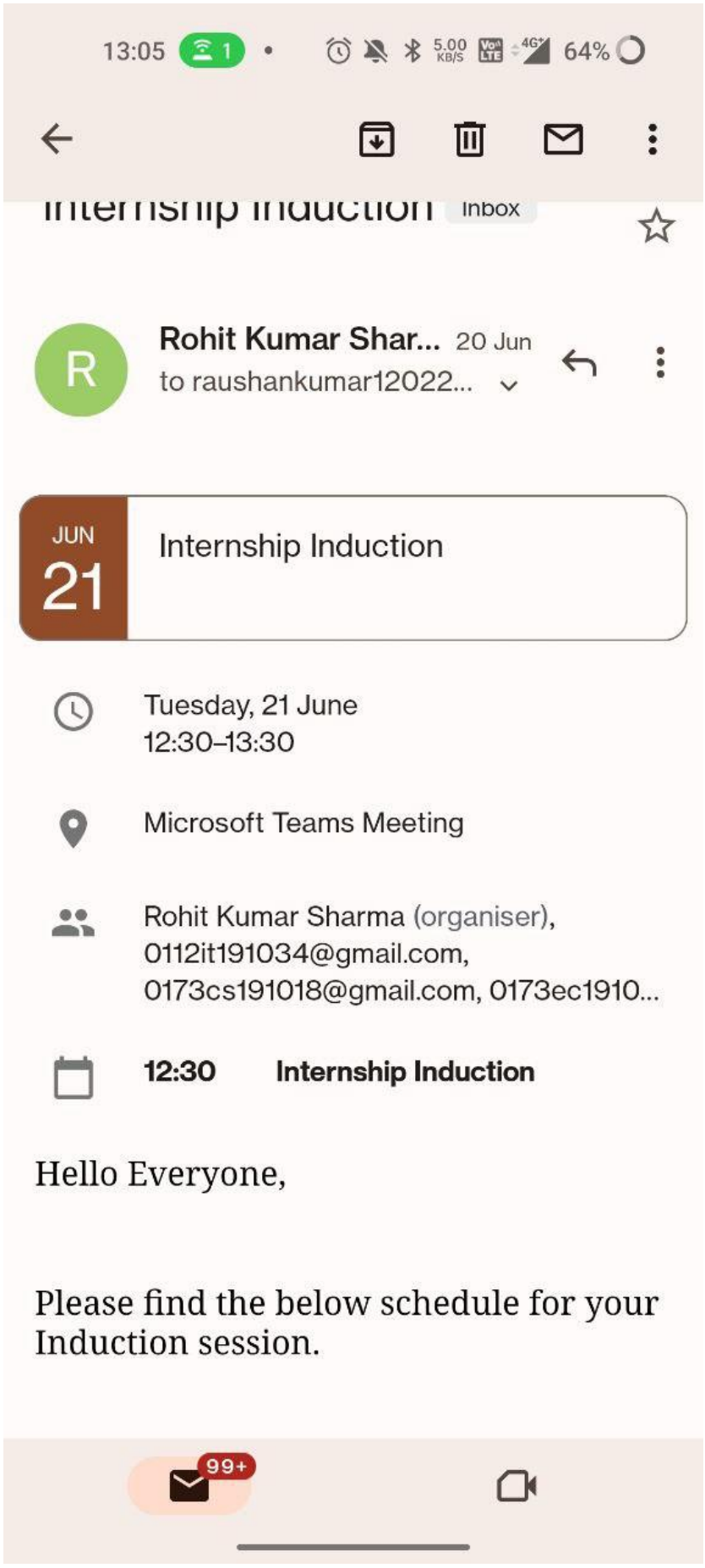
Public Company

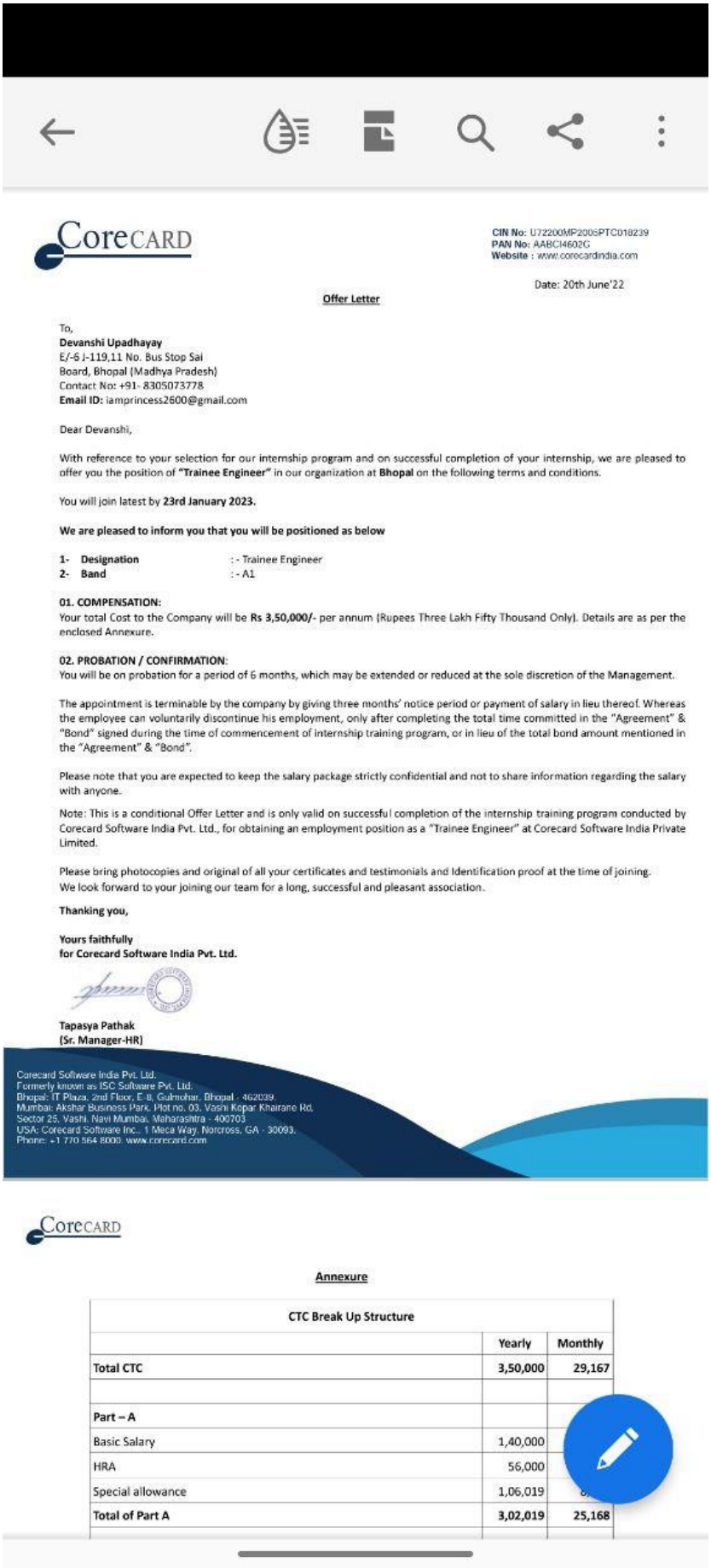
Founded

2001

Specialties

Credit Card Software, prepaid software, bankcard software, fleet software, card management software, card processing software, Revolving Credit Software, Loans System of Record, Prepaid Processing, Credit Processing, Private Label Processing, Card Issuer, Issuer Processing, Visa/Mastercard/Discover, PCI Compliant, Collections, and Credit Origination.


13:05
64%
Internship Induction
Inbox
Rohit Kumar Shar... 20 Jun
to raushankumar12022...
JUN
21
Internship Induction
Tuesday, 21 June
12:30–13:30
Microsoft Teams Meeting
Rohit Kumar Sharma (organiser),
0112it191034@gmail.com,
0173cs191018@gmail.com, 0173ec1910...
12:30 Internship Induction
Hello Everyone,
Please find the below schedule for your Induction session.
99+



CoreCARD

CIN No: U72200MP2005PTC018239
PAN No: AABCI4602G
Website : www.corecardindia.com

Date: 20th June'22

Offer Letter

To,
Devanshi Upadhayay
E/-6 J-119,11 No. Bus Stop Sai
Board, Bhopal (Madhya Pradesh)
Contact No: +91- 8305073778
Email ID: iamprincess2600@gmail.com

Dear Devanshi,

With reference to your selection for our internship program and on successful completion of your internship, we are pleased to offer you the position of **"Trainee Engineer"** in our organization at **Bhopal** on the following terms and conditions.

You will join latest by **23rd January 2023.**

We are pleased to inform you that you will be positioned as below

1- **Designation** : - Trainee Engineer
2- **Band** : - A1

01. COMPENSATION:
Your total Cost to the Company will be **Rs 3,50,000/-** per annum (Rupees Three Lakh Fifty Thousand Only). Details are as per the enclosed Annexure.

02. PROBATION / CONFIRMATION:
You will be on probation for a period of 6 months, which may be extended or reduced at the sole discretion of the Management.

The appointment is terminable by the company by giving three months' notice period or payment of salary in lieu thereof. Whereas the employee can voluntarily discontinue his employment, only after completing the total time committed in the "Agreement" & "Bond" signed during the time of commencement of internship training program, or in lieu of the total bond amount mentioned in the "Agreement" & "Bond".

Please note that you are expected to keep the salary package strictly confidential and not to share information regarding the salary with anyone.

Note: This is a conditional Offer Letter and is only valid on successful completion of the internship training program conducted by Corecard Software India Pvt. Ltd., for obtaining an employment position as a "Trainee Engineer" at Corecard Software India Private Limited.

Please bring photocopies and original of all your certificates and testimonials and Identification proof at the time of joining.
We look forward to your joining our team for a long, successful and pleasant association.

Thanking you,

Yours faithfully
for Corecard Software India Pvt. Ltd.

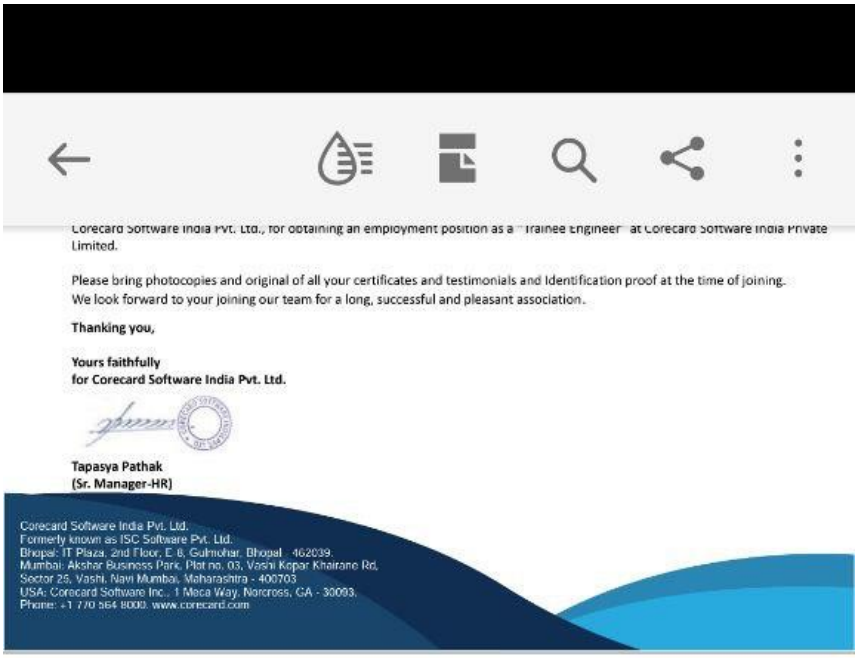
Tapasya Pathak
(Sr. Manager-HR)

Corecard Software India Pvt. Ltd.
Formerly known as ISC Software Pvt. Ltd.
Bhopal: IT Plaza, 2nd Floor, E-8, Gulmohar, Bhopal - 462039.
Mumbai: Akshar Business Park, Plot no. 03, Vashi Kopar Khairane Rd, Sector 25, Vashi, Navi Mumbai, Maharashtra - 400703
USA: Corecard Software Inc., 1 Meca Way, Norcross, GA - 30093.
Phone: +1 770 564 8000. www.corecard.com

CoreCARD

Annexure

CTC Break Up Structure		
	Yearly	**Monthly**
Total CTC	**3,50,000**	**29,167**
Part – A		
Basic Salary	1,40,000	
HRA	56,000	
Special allowance	1,06,019	
Total of Part A	**3,02,019**	**25,168**



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CorecARD

Annexure

CTC Break Up Structure		
	Yearly	**Monthly**
Total CTC	**3,50,000**	**29,167**
Part – A		
Basic Salary	1,40,000	11,667
HRA	56,000	4,667
Special allowance	1,06,019	8,835
Total of Part A	**3,02,019**	**25,168**
Part-B		
PF Contribution Employer	16,800	1,400
Gratuity	6,731	561
Total of Part B	**23,531**	**1,961**
Total Salary (Part A + Part B)	**3,25,550**	**27,129**
Part-C		
Less : PF Contribution Employee	16,800	1,400
Less : PF Contribution Employer	16,800	1,400
Less : Gratuity	6,731	561
Total of Part C	**40,331**	**3,361**
Net Salary Take home Before Tax	**2,85,219**	**23,768**
Part D (Other Benefits)		
Employee Family Health Insurance (Sum Assured Rs.5,00,000/-)	12,000	1,000
Employee Personal Accident Insurance (Sum Assured Rs.10,00,000/-)	450	38
Food Coupons	12,000	1,000
Total of Part D	**24,450**	**2,038**
Total CTC	**3,50,000**	

4. DESCRIPTION

- First,the web scraping process is performed. ...
- The scraped data from the seed URL is stored temporarily in the memory. ...
- Next,the scraper’s job is to store the extracted pages while passing them back and forth in a single repository.
- Finally,the scraper has to identify the data points in the stored pages...

DURATION OF INTERNSHIP

This is a 3 months trainning.

Started from 23 June 2022 TO 26 September 2022.

5. LEARNING MODULES

Python Internship Syllabus:

- Introduction to Python.
- Python Data Types.
- Statements.
- Strings.
- List and Tuple.
- Sets and Dictionary.
- Arrays.
- Functions.
- File Handling Concepts.
- Libraries.
- one major Project.

6. ADVANTAGES OF WEB SCRAPING

ADVANTAGES

To endure the success of your business/service, you must act fast and compete in the market. **Web Scraping plays a pivotal role in the process of achieving success and developing the business.** The Web scraping advantages and processes are as follows:

Save Cost

Web Scraping saves cost and time as it reduces the time involved in the data extraction task. These tools once created can be put on automation and hence, there is less dependency on the human workforce.

Accuracy Of Results

Web Scraping beats human data collection hands down. With automated scraping, you get fast and reliable results that can't be humanly possible.

Time To Market Advantage

Accurate results help businesses save time, money, and human labor. This leads to an apparent time-to-market advantage over the competitors.

High Quality

Web Scraping provides access to clean, well-structured, and high-quality data through scraping APIs so that fresh new data can be integrated into the systems.

TOOLS TO BE USED

- **Jupyter Notebook**
- **Ms excel**

LIBRARIES TO BE USED

- Numpy :- Numpy supports multi-dimentional array and matrices , along with large collection of mathematical function to operate on this array.
- Pandas:- Pandas is used to analyze and manipulate data.
- Sklearn:- It is a machine learning algorithm that has various features like classification, regression, and clustering algorithm etc.
- Matplotlib:- matplotlib is comprehensive library for creating statics, animated and interactive visualization in python
- Seaborn:- seaborn is python's data visualization library.

DATASET TO BE USED

- Web Scraping to Create a Dataset using Python The datasets that you find on the internet from various data sources are either created by companies and organizations or are collected from websites. You must have scraped data from web pages by using the Python libraries, but may have stuck while preparing the scraped data to create a dataset.

  - Link-
  - https://drive.google.com/file/d/1mYtTfosZ7rlkBSBjlDKHTcL5qqs2Vx5/view?usp=sharing

7 REAL WORLD

Real world scraping example on Selenium and Beautiful Soup.

Introduction to Selenium and Beautiful Soup

For the uninitiated, let's begin by a brief introduction of the technologies we will be using.

Selenium

Born in 2004, Selenium is an open-sourced automated testing framework that is used to validate web applications across different browsers and platforms.

These test scripts can be built using different programming languages such as Java, C#, PHP, Python, Ruby and Perl.

In this post, we will be using a Selenium Python package (Selenium Web Driver) to create the test scripts.

As a quick introduction to how it works, here's on me working with Selenium off a Jupyter Notebook.

Using python collecting real-world data by web scraping real estate website and doing data wrangling.

In any data science project one of the most asked questions is how to get the data, where is the data. I would say there is plenty of data around you, you just need to extract it. For example, on the internet, there are millions of petabytes of data available and most of it is free. All you need to know is how to extract it and make it useful for your organisation. I would say any type of organisation can make use of the free data available on the internet for their business gains. They can use web scraping to extract it.

For demonstrating web scrapping in this article I will be scraping data from domian.com. Domain.com is a real estate website. I will be scrapping the price, number of bedrooms, number of bathrooms, number of parking, address and location(latitude and longitude) of each house in Melbourne, Australia.

Before diving into python programming you need to know some basics about html.

All the web pages are written in HTML(Hyper Text Markup Language).

- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML elements tell the browser how to display the content

- HTML elements label pieces of content such as “this is a heading”, “this is a paragraph”, “this is a link”, etc.

A simple HTML document looks like this:

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

Where,

- The `<!DOCTYPE html>` declaration defines that this document is an HTML5 document
- The `<html>` element is the root element of an HTML page
- The `<head>` element contains meta information about the HTML page
- The `<title>` element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)
- The `<body>` element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The `<h1>` element defines a large heading
- The `<p>` element defines a paragraph

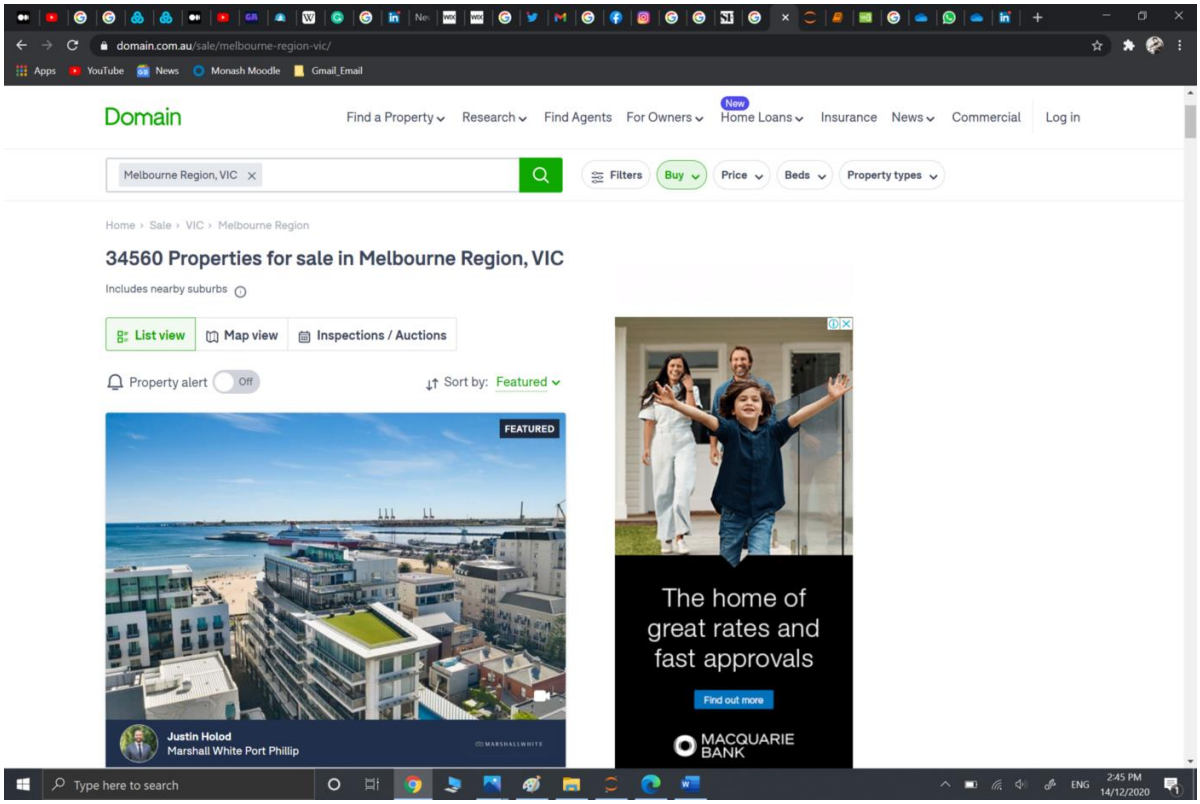
You can get this HTML document of any website by doing a right-click on a webpage and then selecting “View page source”(available in Microsoft Edge and Google Chrome). All the content on the webpage will be inside this HTML document in a well-structured format, all you need to do is extract the required data from this HTML document.

1. Data Collection

There are various libraries available in Python to get this HTML document and parse it into the required format you want.

```
# sample code to get a HTML document and parse it into the required
format you want
from urllib.request import urlopen
from bs4 import BeautifulSouphtml =
urlopen(“https://www.domain.com.au/sale/melbourne-region-vic/")
bsobj = BeautifulSoup(html, “lxml”)
```

In the above code, `urlopen` is extracting HTML document of given web page and `BeautifulSoup` is phrasing it into lxml format. lxml format is easy to understand, you can use another format you want such as json etc.



Search result for melbourne houses on Domain.com

The above screenshot showing "https://www.domain.com.au/sale/melbourne-region-vic/" URL result and it is showing all the properties available for selling in Melbourne but we need to find webpages for each Melbourne properties available on "https://www.domain.com.au/sale/melbourne-region-vic/"(this search result page). We can do it by extracting all the URLs available on this page and storing them into a list. One more thing to add here is that there are 50 pages for Melbourne house search on Domain.com and this is only 1st page so we need to go to every 50 pages and extract all the URLs for each advertised house in Melbourne. We need to apply the loop for 50 iterations, each iteration for each page.

```
from urllib.request import urlopen
from bs4 import BeautifulSoup
import re
# home url of domian.com australia
home_url = "https://www.domain.com.au"
# number of pages of search result are 50, so we need to
```

```
page_numbers = list(range(50))[1:50]
# list to store all the urls of properties
list_of_links = []
# for loop for all 50 search(melbourne region) pages
for page in page_numbers:

    # extracting html document of search page
    html = urlopen(home_url + "/sale/melbourne-region-vic/?sort=price-
desc&page=" + str(page))
    # parsing html document to 'lxml' format
    bsobj = BeautifulSoup(html, "lxml")
    # finding all the links available in 'ul' tag whos 'data-testid'
is 'results'
    all_links = bsobj.find("ul", {"data-testid":
"results"}).findAll("a",
href=re.compile("https://www.domain.com.au/*"))# inner loop to find
links inside each property page because few properties are project so
they have more properties inside their project page
    for link1 in all_links:
        # checking if it is a project and then performing similar
thing I did above
        if 'project' in link1.attrs['href']:
            inner1_html = urlopen(link1.attrs['href'])
            inner1_bsobj = BeautifulSoup(inner1_html, "lxml")
            for link2 in inner1_bsobj.find("div", {"name": "listing-
details__other-listings"}).findAll("a",
href=re.compile("https://www.domain.com.au/*")):
                if 'href' in link2.attrs:
                    list_of_links.append(link2.attrs['href'])
        else:
            list_of_links.append(link1.attrs['href'])
```

You can simply copy and paste the above code and do some modifications according to your needs, and try to run.

You can download my jupyter notebook here (github). This Jupyter notebook contains full detailed description with complete python code.

Above I did a few different things:

1. I used the search page which is sorted by price. I did this so that it will be easier to impute missing price of houses. I will explain it more in data wrangling part below.

2. The Inner loop is used because few properties are not just properties, they are projects and each project have more properties URL links inside their page.

Now we have all the URLs of each property in Melbourne, Australia. Each URL is unique for each property in Melbourne. Our next step will be, go inside each URL and extract price, number of bedrooms, number of bathrooms, number of parking, address and location(latitude and longitude).

```
# removing duplicate links while maintaining the order of urls
abc_links = []
for i in list_of_links:
    if i not in abc_links:
        abc_links.append(i)

# defining required regural expression for data extraction
pattern = re.compile(r'>(.+)<!.*>(.+?)</span>.*')
pattern1 = re.compile(r'>(.+)<.')
pattern2 = re.compile(r'destination=(.+)" rel=.')
basic_feature_list = []# loop to iterate through each url
for link in abc_links:

    # opening urls
    html = urlopen(link)

    # converting html document to 'lxml' format
    bsobj = BeautifulSoup(html, "lxml")

    # extracting address/name of property
    property_name = bsobj.find("h1", {"class": "css-164r41r"})

    # extracting baths, rooms, parking etc
    all_basic_features = bsobj.find("div", {"class": "listing-
details__listing-summary-features css-er59q5"}).findAll("span",
{"data-testid": "property-features-text-container"})

    # extracting property price
    property_price = bsobj.find("div", {"data-testid": "listing-
```

```
details__summary-title"})

    # extracting latitudes and longitudes
    lat_long = bsobj.find("a", {"target": "_blank", 'rel': "noopener
noreferer"})

    # dictionary to store temporary data
    basic_feature_dict = {}

    # few properties does not contain all the 4 features such as
rooms, baths, parkings, area. So need to check
    # how many features they contain
    if len(all_basic_features) == 4:

basic_feature_dict[pattern.findall(str(all_basic_features[0]))[0][1]]
= pattern.findall(str(all_basic_features[0]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[1]))[0][1]]
= pattern.findall(str(all_basic_features[1]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[2]))[0][1]]
= pattern.findall(str(all_basic_features[2]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[3]))[0][1]]
= pattern.findall(str(all_basic_features[3]))[0][0]

    elif len(all_basic_features) == 3:

basic_feature_dict[pattern.findall(str(all_basic_features[0]))[0][1]]
= pattern.findall(str(all_basic_features[0]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[1]))[0][1]]
= pattern.findall(str(all_basic_features[1]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[2]))[0][1]]
= pattern.findall(str(all_basic_features[2]))[0][0]

    elif len(all_basic_features) == 2:

basic_feature_dict[pattern.findall(str(all_basic_features[0]))[0][1]]
= pattern.findall(str(all_basic_features[0]))[0][0]

basic_feature_dict[pattern.findall(str(all_basic_features[1]))[0][1]]
= pattern.findall(str(all_basic_features[1]))[0][0]

    elif len(all_basic_features) == 1:

basic_feature_dict[pattern.findall(str(all_basic_features[0]))[0][1]]
= pattern.findall(str(all_basic_features[0]))[0][0]# putting 'none' if
price is missing
```

```
    if property_price is None:
        basic_feature_dict['price'] = None

    else:
        basic_feature_dict['price'] =
pattern1.findall(str(property_price))[0]

    # putting 'none' if property name/address is missing
    if property_name is None:
        basic_feature_dict['name'] = None

    else:
        basic_feature_dict['name'] =
pattern1.findall(str(property_name))[0]

    # putting 'none' if latitude and logitude are missing
    if lat_long is None:
        basic_feature_dict['lat'] = None
        basic_feature_dict['long'] = None

    else:
        basic_feature_dict['lat'] =
pattern2.findall(str(lat_long))[0].split(',')[0]
        basic_feature_dict['long'] =
pattern2.findall(str(lat_long))[0].split(',')[1]# appending all the
data into a list
    basic_feature_list.append(basic_feature_dict)
```

Now, the output of the above code gives us a list of dictionaries with all the available extracted data. In the below code we will be converting it into many individual lists because we have to do little more cleaning and extraction of above-extracted data and it will be easier to do in lists.

```
# creating empty lists
beds_list = []
baths_list = []
parking_list = []
area_list = []
name_list = []
lat_list = []
long_list = []
price_list = []# interating through list created above with data
for row in basic_feature_list:

    # checking if the row cointains 'Beds', 'Bed' or nothing
    if 'Beds' in row:
        beds_list.append(row['Beds'])
```

```
    elif 'bed' in row:
        beds_list.append(row['Bed'])
    else:
        beds_list.append(None)

    # checking if the row cointains 'Baths', 'Bath' or nothing
    if 'Baths' in row:
        baths_list.append(row['Baths'])
    elif 'Bath ' in row:
        baths_list.append(row['Bath'])
    else:
        baths_list.append(None)

    # checking if the row cointains 'Parking', '-' or nothing
    if 'Parking' in row and row['Parking'] != '-':
        parking_list.append(row['Parking'])
    else:
        parking_list.append(None)

    # checking if the row cointains ' ', or nothing. Because empty
space (i.e. ' ') reprsents area
    if ' ' in row:
        area_list.append(row[' '])
    else:
        area_list.append(None)# checking if the row cointains 'name'
that is address of property
    if 'name' in row:
        name_list.append(row['name'])
    else:
        name_list.append(None)

    # checking if the row cointains 'price'
    if 'price' in row:
        price_list.append(row['price'])
    else:
        price_list.append(None)

    # checking if the row cointains 'lat' that is lattitude of
property
    if 'lat' in row:
        lat_list.append(row['lat'])
    else:
        lat_list.append(None)

    # checking if the row cointains 'long' that is lattitude of
property
    if 'long' in row:
        long_list.append(row['long'])
    else:
        long_list.append(None)
```

Now, we have all the data in list format.

2. Data Wrangling

Few people do not want to show the price of the property so they do not put price in their property advertisement. Some times they do not put anything in the price column and sometimes they put something like ‘contact dealer’ or ‘after inspection price’ or something else. And also some people do not put directly price they put a range of price or price with some extra text before the price or after the price or both. So we need to handle all these situations and extract only the price and if the price is not given then put ‘none’ their. Below code is doing the same.

```
import random# creating a new empty price list
actual_price_list = []# defining some regural expressions, they will
be used to extract price of properties
pattern1 = re.compile(r'\$\s?([0-9,\.]+).*\s?.+\s?\$\s?([0-9,\.]+)')
pattern2 = re.compile(r'\$([0-9,\.]+)')# interating through price_list
for i in range(len(price_list)):

    # check that a price is given or range of price is given

    if str(price_list[i]).count('$') == 1:
        b_num = pattern2.findall(str(price_list[i]))

        # checking length of string, if it is less than or equal to 5
then price is in millions so need to convert the price
        if len(b_num[0].replace(',', '')) > 5:
            actual_price_list.append(float(b_num[0].replace(',', '')))
        else:
            actual_price_list.append(float(b_num[0].replace(',',
''))*1000000)

    elif str(price_list[i]).count('$') == 2:
        a_num = pattern1.findall(str(price_list[i]))
        random_error = random.randint(0, 10000)

        # checking length of string, if it is less than or equal to 5
then price is in millions so need to convert the price
        if len(a_num[0][0].replace(',', '')) > 5 and
len(a_num[0][1].replace(',', '')) > 5:
```

```
            # to take average price between two price range given
            avg_price = (float(a_num[0][0].replace(',', '')) +
float(a_num[0][1].replace(',','')))/2
        else:
            avg_price = (float(a_num[0][0].replace(',', '')) +
float(a_num[0][1].replace(',','')))/2)*1000000

        # adding or subtracting the amount from the average price by
normally distributed generated random number
        avg_price = avg_price + random_error
        actual_price_list.append(avg_price)
    else:
        actual_price_list.append('middle_price')
```

There are alot of missing values in price because many people do not want to give or show house price on the website. Now we need to impute the missing price and I came up with a trick.

The trick is that we sort houses by their price then all the houses with or without the shown price will be sorted. The sorting by the website is done using price given by the owners of the houses to the website but it is not shown on the website for users. This is why we extracted houses data from the website when website results are sorted by price.

Let us understand it using an example, suppose there are 10 houses and price of two houses is missing but we can sort houses according to their price, so 1st we sort them according to their price then we see that price of house 4 and house 5 is missing so we will take mean of the price of house 3 and house 6. And then impute missing prices with that mean value. Similar kind of thing we will be doing in the below code.

```
# for loop to impute missing values at the start of list, because here
we cannot take mean
for i in range(len(actual_price_list)):
    if actual_price_list[i] != 'middle_price':
        for a in range(i, -1, -1):
```

```
            actual_price_list[a] = actual_price_list[i]
        break# here we will be taking mean and then add random number
with same standard deviation normal distribution and then impute it
for i in range(len(actual_price_list)):
    if actual_price_list[i] == 'middle_price':
        for j in range(i, len(actual_price_list)):
            if actual_price_list[j] != 'middle_price':
                mid = (actual_price_list[i-1] +
actual_price_list[j])/2
                if actual_price_list[j] > 12000000:
                    for k in range(i, j):
                        random_error = random.randint(-1000000,
1000000)
                        mid = mid + random_error
                        actual_price_list[k] = mid
                    i = j
                    break
                elif actual_price_list[j] > 5000000:
                    for k in range(i, j):
                        random_error = random.randint(-100000, 100000)
                        mid = mid + random_error
                        actual_price_list[k] = mid
                    i = j
                    break
                else:
                    for k in range(i, j):
                        random_error = random.randint(-10000, 10000)
                        mid = mid + random_error
                        actual_price_list[k] = mid
                    i = j
                    break
            elif j == len(actual_price_list)-1:
                for n in range(i, len(actual_price_list)):
                    random_error = random.randint(-1000, 1000)
                    a_price = actual_price_list[i-1]
                    a_price = a_price + random_error
                    actual_price_list[n] = a_price
                break
```

Creating Dataframe.

```
import pandas as pdhouse_dict = {}house_dict['Beds'] = beds_list
house_dict['Baths'] = baths_list
house_dict['Parking'] = parking_list
house_dict['Area'] = area_list
house_dict['Address'] = name_list
house_dict['Latitude'] = lat_list
house_dict['Longitude'] = long_list
house_dict['Price'] = actual_price_listhouse_df =
```

```
pd.DataFrame(house_dict)
house_df.info()
```

'area' column have many null values which cannot be imputed so we will be deleting 'area' column.

```
house_df.drop('Area', axis=1, inplace=True)
```

Also converting beds, baths, parking string type into numeric type.

```
house_df["Beds"] = pd.to_numeric(house_df["Beds"])
house_df["Baths"] = pd.to_numeric(house_df["Baths"])
house_df["Parking"] = pd.to_numeric(house_df["Parking"])
```

Now perform some explanatory data analytics to find problems in the data and then solve those issues. For example use scatter plot to check outliers in the data or use histogram to see the distribution of data etc.

```
# scatter plot
house_df.plot.scatter(x='Beds',
                      y='Baths')# histogram
house_df["Price"].plot.hist(bins = 50)
```

Data cleansing is an iterative process. The first step of the cleansing process is data auditing. In this step, we identify the types of anomalies that reduce the data quality. Data auditing is about programmatically checking the data using some validation rules that are pre-specified, and then creating a report of the quality of the data and its problems. We often apply some statistical tests in this step for examining the data.
Data Anomalies can be classified at a high level into three categories:

1. Syntactic Anomalies:
   describe characteristics concerning the format and values used for representation of the entities. Syntactic anomalies such as: lexical errors, domain format errors, syntactical error and irregularities.

2. Semantic Anomalies:
   hinder the data collection from being a comprehensive and non-redundant representation of the mini-world. These types of anomalies include: Integrity constraint violations, contradictions, duplicates and invalid tuples.

3. Coverage Anomalies:
   decrease the amount of entities and entity properties from the mini-world that are represented in the data collection. Coverage anomalies are categorized as: missing values and missing tuples.

There are many ways to handle these anomalies, I will not be going in details on how to handle these anomalies because our extracted data does not have these anomalies.

Data can also be transformed according to the need. This problem of predicting house price is a regression problem. If it is a linear regression problem then we can perform some transformation to make data satisfy linear regression assumptions.

We can add or create new features using existing features in the data set so that we can make data more enriched. I am creating a new column which will contain the distance of the house from the city(Flinder Street Station, Melbourne).

Missing values

Source of missing values:

Data Extraction: It is possible that there are problems with extraction process. In such cases, we should double-check for correct data with data guardians. Some hashing procedures can also be used to make sure that data extraction is correct. Errors at data extraction stage are typically easy to find and can be corrected easily as well.

Data collection: These errors occur at time of data collection and are harder to correct.

They can be categorized in four types:

- Missing completely at random: This is a case when the probability of missing variable is same for all observations. For example: respondents of data collection process decide that they will declare their earning after tossing a fair coin. If an head occurs, respondent declares his / her earnings & vice versa. Here each observation has equal chance of missing value.
- Missing at random: This is a case when variable is missing at random and missing ratio varies for different values / level of other input variables. For example: We are collecting data for age and female has higher missing value compare to male.
- Missing that depends on unobserved predictors: This is a case when the missing values are not random and are related to the unobserved input variable. For example: In a medical study, if a particular diagnostic causes discomfort, then there is higher chance of drop out from the study. This missing value is not at random unless we have included “discomfort” as an input variable for all patients.

- Missing that depends on the missing value itself: This is a case when the probability of missing value is directly correlated with missing value itself. For example: People with higher or lower income are likely to provide non-response to their earning.

According to the research and after performing EDA(explanatory data analytics) you can safely find out what type of missingness in your data. Our extracted data is Missing completely at random and data set is huge so I have deleted all the rows with any 'none' value.

```
import mathcleaned_house_df =
house_df.dropna(how='any')cleaned_house_df.reset_index(drop = True,
inplace = True)
# radius of earth is 6378
r = 6378
dis_to_city = []
for i in range(len(cleaned_house_df)):

    lat1_n = math.radians(-37.818078)
    lat2 = math.radians(float(cleaned_house_df['Latitude'][i]))

    lon1_n = math.radians(144.96681)
    lon2 = math.radians(float(cleaned_house_df['Longitude'][i]))

    lon_diff_n = lon2 - lon1_n
    lat_diff_n = lat2 - lat1_n

    a_n = math.sin(lat_diff_n / 2)**2 + math.cos(lat1_n) *
math.cos(lat2) * math.sin(lon_diff_n / 2)**2
    c_n = 2 * math.atan2(math.sqrt(a_n), math.sqrt(1 - a_n))

    dis_to_city.append(round(r*c_n, 4))

cleaned_house_df['distance_to_city'] = dis_to_city
```

The final step is to export Dataframe to any other tabular format file like excel file or CSV file etc.

```
# exporting to csv file
cleaned_house_df.to_csv('real_estate_data_csv.csv', index=False)#
exporting to excel file
cleaned_house_df.to_excel('real_estate_data_excel.xlsx', index=False)
```

ROAD MAP

- Download Dataset
- Data Pre-processing
- Splitting Data
- Training Data on Machine Learning Algorithm
- Predicting model accuracy
- Visualize the data
- Predicting new dataset
- Visualizing Predicted Data

DATA PRE-PROCESSING

A real world data generally contains noise, missing values, and may be in an unstable format while we cannot be directly used for machine learning model. Data Pre-processing is required tasks for cleaning the data and making suitable for a machine learning model which also increases the accuracy and efficiency for machine learning model.

In this dataset some problems that may affect model are:

1. Fare amount should not be 0 or ‘negatine’ .
2. Pickup location should not equal drop off location.
3. Passenger count should not 0, ‘negative’, and more than 7.

DATA AFTER PRE-PROCESSING

fare_amount	passenger_count	Distance
7.5	1	1.683322752
7.7	1	2.457589884
12.9	1	5.03637719
5.3	3	1.661683458
16	5	4.475449963
24.5	5	11.73101488
9.7	1	2.332711009
12.5	1	4.889416888
6.5	1	2.250857622
3.3	5	0.302251693
10.9	1	3.581250827
6.9	1	1.3099499
9.7	2	1.716277422
4.9	1	0.729965549
10.5	2	2.515950072
12	1	1.790319253
4.9	1	1.034703611
10.5	1	2.490243761
5	2	0.959468859
4.1	2	1.261388025
7.7	2	1.751762582
12.9	5	6.193235947

SPLITTING DATASET

Data splitting is the act of partitioning available data into. two portions, usually for cross-validatory purposes. One. portion of the data is used to develop a predictive model. and the other to evaluate the model's performance.

We can partitioned the dataset into training and testing sample manually or using sklearn.train_test_split(). Mostly train_test_split() is prefered because it split data randomly.

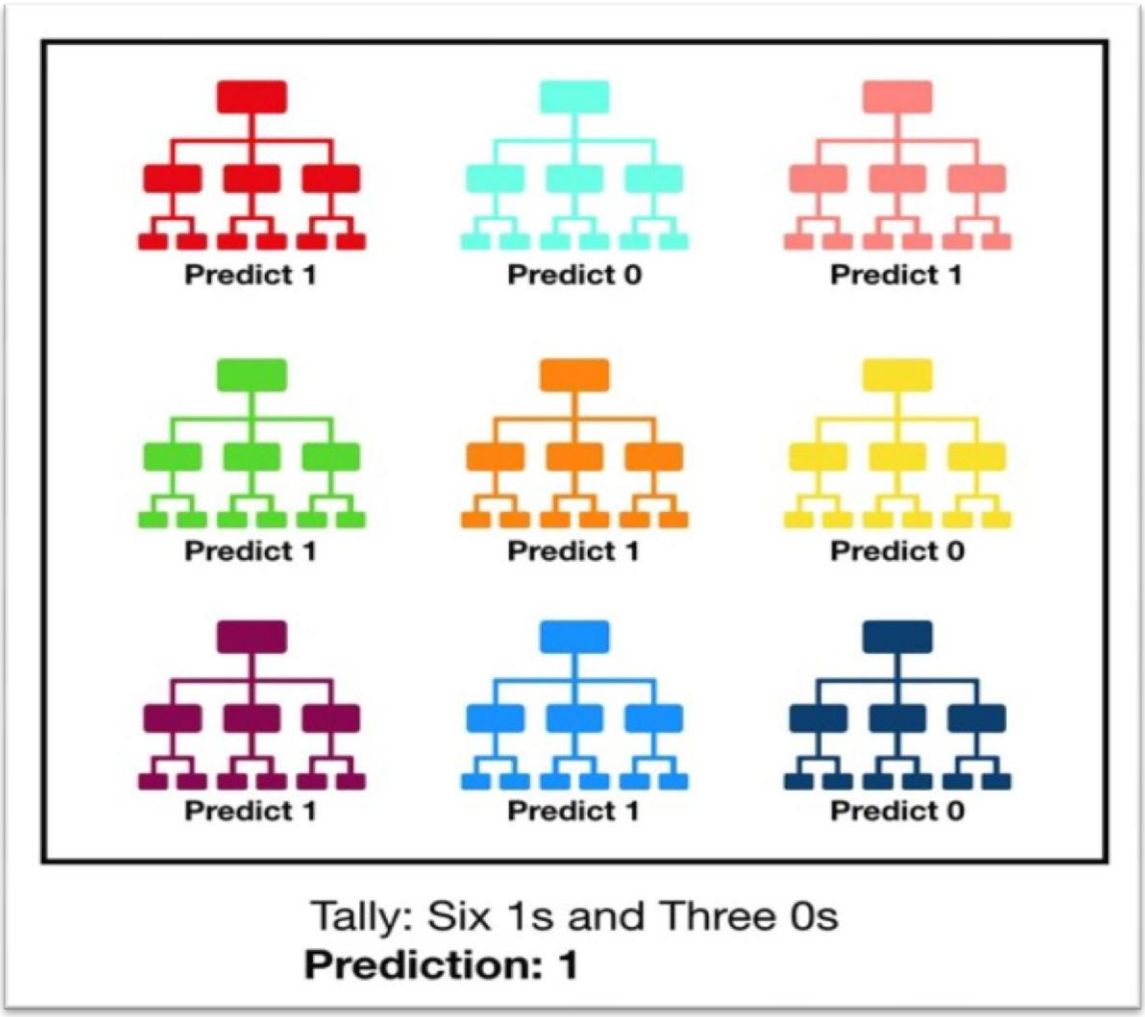
TRAINING DATA

- Training data is the data you use to train a machine learning model to predict the outcome you design your model to predict.
- We are implementing Random Forest Algorithm for the prediction.

Random Forest Regressor Algorithm :

- A random forest is a meta estimator that fits a number of classifying decision trees on various sub-samples of the dataset and uses averaging to improve the predictive accuracy and control overfitting. The sub-sample size is controlled with the max_samples parameter if bootstrap=True (default), otherwise the whole dataset is used to build each tree.

VISUALIZATION OF A RANDOM FOREST MODEL MAKING A PREDICTION



PREDICTING ACCURACY OF MODEL

- Predictive accuracy should be **measured based on the difference between the observed values and predicted values**.
- We will use MSE(mean squared error)
- The **mean squared error (MSE)** is a common way to measure the prediction accuracy of a model
- The lower the value for MSE, the better a model is able to predict values accurately.

DATA VISUALIZATION

- Data visualization is the discipline of trying to understand data by placing it in a visual context so that patterns, trends and correlations that might not otherwise be detected can be exposed.
- plots python has an excellent library for visualizing the data name seaborn

Seaborn:

- Seaborn is a Python data visualization library based on Matplotlib. It provides a high-level interface for creating attractive graphs.
- Seaborn has a lot to offer. You can create graphs in one line that would take you multiple tens of lines in Matplotlib. Its standard designs are awesome and ITalso has a nice interface for working with pandas dataframes

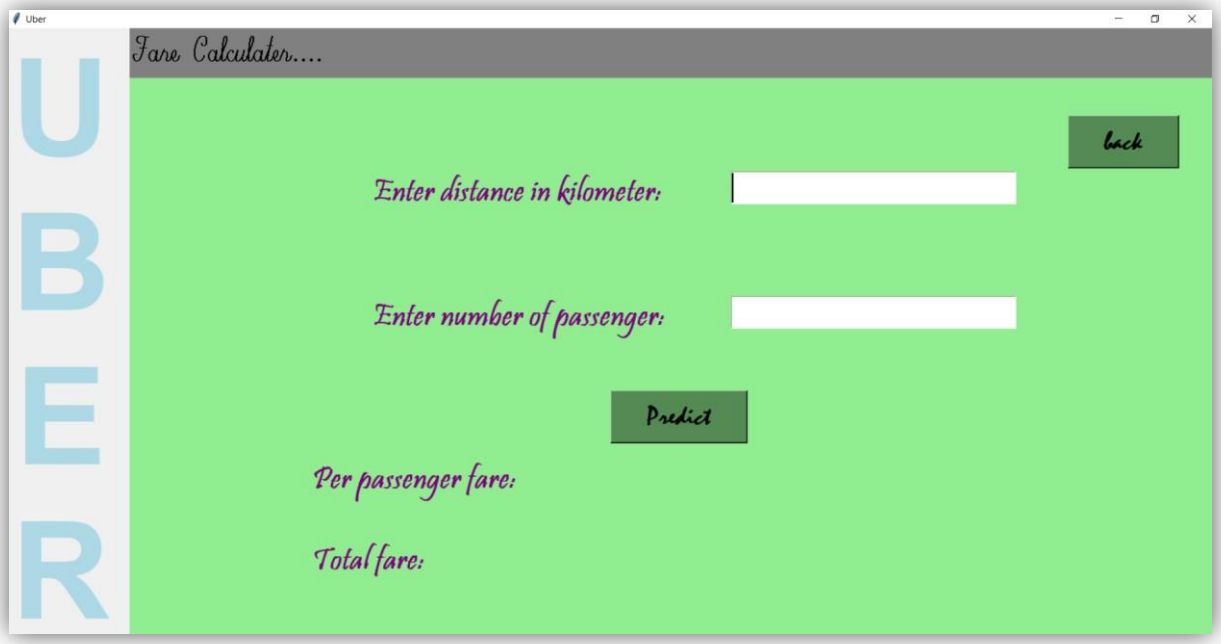
▶ .14. GUI USING TKINTER

- Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is the most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter is the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.
- To create a tkinter app:
- Importing the module – tkinter
- Create the main window (container)
- Add any number of widgets to the main window

HOME SCREEN


Uber
Fare Calculater....
U
B
E
R
Using...
Kilometer
Using...
Long & Lat
Using...
Address

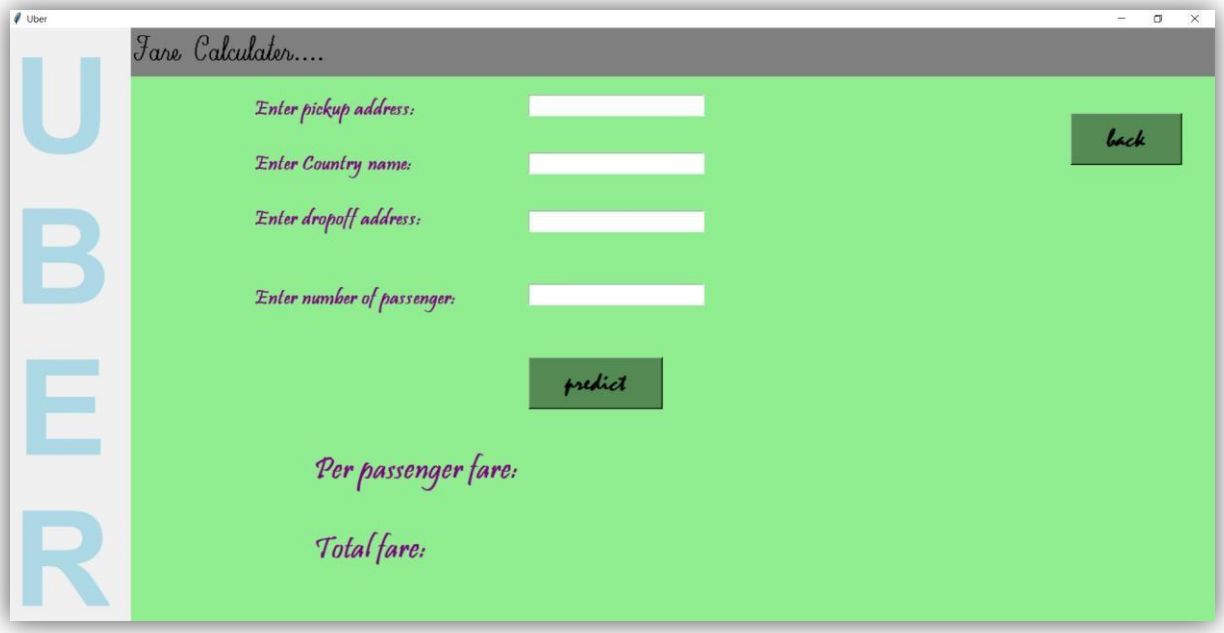
USING DISTANCE



1USING LON & LAT VALUES



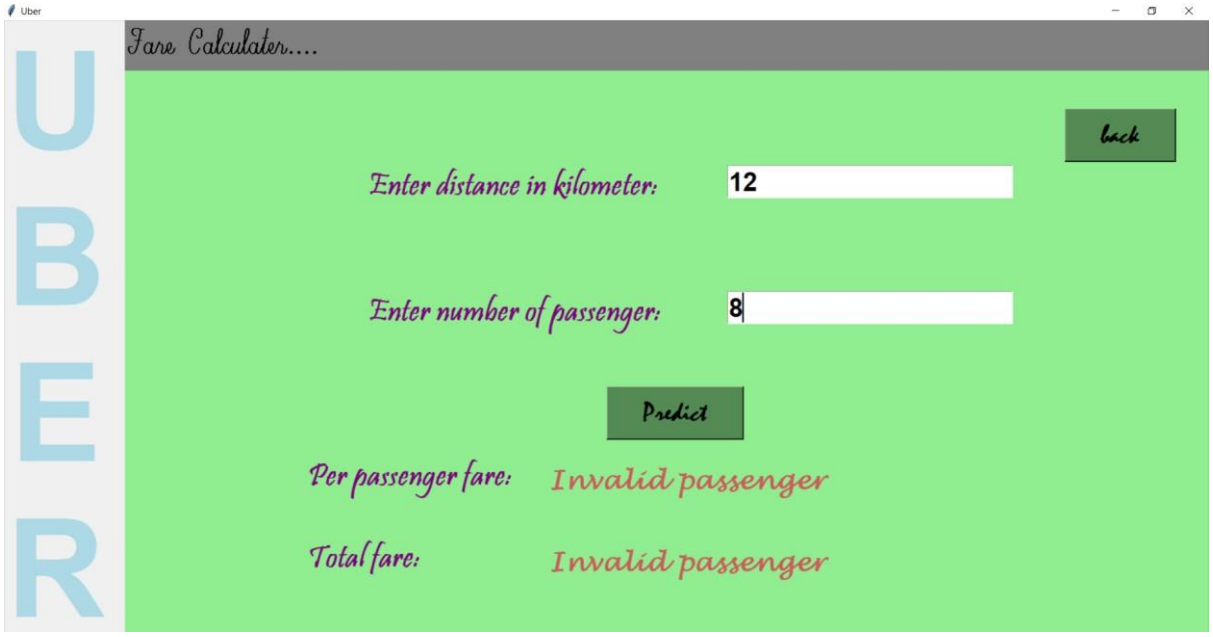
USING ADDRESS



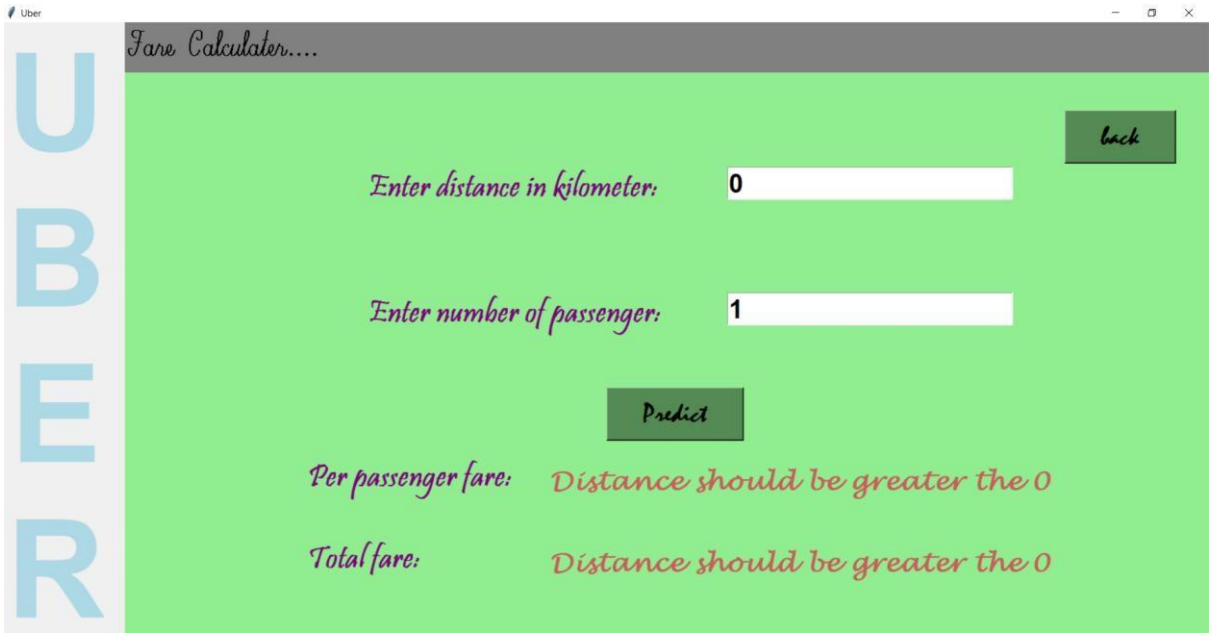
SNAP S OF OUTPUT



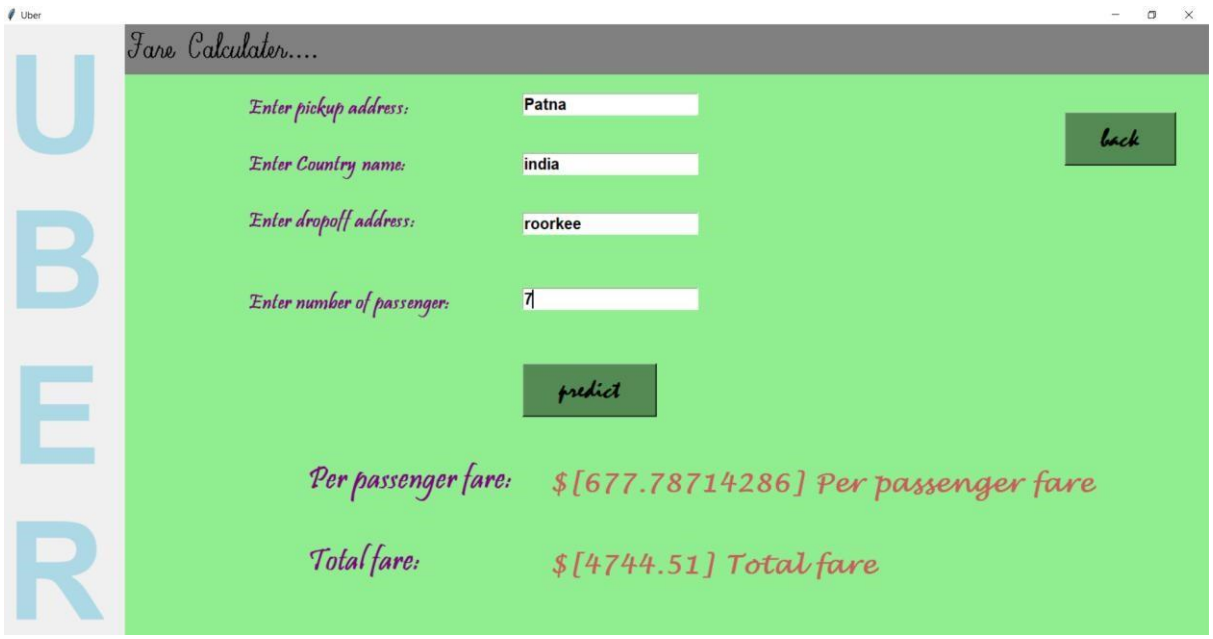
PASSENGER SHOULD BE LESS THEN 8



Distance should be greater then 0



USING GEO-ENCODER



CONCLUSION

I believe the trial has shown conclusively that it is both possible and desirable to use :

Advance Python as the principal teaching language:

- It is Free (as in both cost and source code).
- It is a flexible tool that allows both the teaching of traditional procedural programming and modern OOP; It can be used to teach a large number of transferable skills;
- It is a real-world programming language that can be and is used in academia and the commercial world;
- It appears to be quicker to learn and, in combination with its many libraries, this offers the possibility of more rapid student development allowing the course to be made more challenging and varied;

FASTFIND FIRM

Pratik Ahirwar

ahirwarpratik0@gmail.com

NRI INSTITUTE OF RESEARCH AND TECHNOLOGY BHOPAL

Dear Pratik Ahirwar,

We are pleased to extend this offer letter for the position of an intern at **FastFindFirm** in the domain of **Ethical Hacking with Cyber Security Internship Program**. We are thrilled to work with you as a team to build a greater tomorrow and achieve our goals.

During your internship, the concentration will be on helping you understand the theoretical concepts with their practicality and implications to help you connect your classroom knowledge and on-field experience. We will be happy to train you to learn new skills which are extremely helpful in the professional setting.

We are all elated to have you join our team.

Joining Date: 17th October, 2022

Tenure of Internship: 2.5 Months

Sincerely,
Team FastFindFirm.

FASTFINDFIRM

Letter of Recommendation

Name: Pratik Ahirwar
Email id:ahirwarpratik0@gmail.com
Period of internship:21/10/2022-08/02/2023

To Pratik Ahirwar

It is our privilege to write this letter to recommend the intern as a person who has performed exceptionally well in our Training Program and has completed the given tasks and assignments on time. The dedication and the quality of work was at par with the professional standards.

The intern has a good grasp of concepts and has the ability to use the knowledge obtained in internship in real life examples and projects. The Intern has worked on the project in the domain of **Ethical hacking with cyber security** and the project of the intern
was -Report on Kali Linux Operating System

Also, this project was selected as one of the excellent project in the entire Internship Program.

Regards,
FastFindFirm,
Mumbai, India

Verify at https://verification.givemycertificate.com/v/e2bd2776-a452-480b-bd9c-9234b87e5c8d

सहकारिता मंत्रालय
Ministry of Cooperation

Ministry of Education
Government of India

MOC/Intern/Final/2022/1016

OFFER LETTER

Dear Mr/Ms. SIMRAN VISHWAKARMA

We would like to congratulate you on being selected as an intern for the National Cooperatives Data Repository Internship offered by Ministry of Cooperation to work and assist in strengthening of the Cooperative Movement in India.

We are pleased to offer you an internship for a period of 45 days commencing from 01-12-2022.

During the internship you will be required to discharge the responsibilities defined in Internship Design and which shall be allocated by Ministry of Cooperation, and the respective District DRCS Nodal Officer in furtherance of your role. AICTE may also assign additional responsibilities to promote effective learning. The offer is subject to the acceptance of the following terms:

Deliverables:

In the course of the internship, you will be required to meet reporting requirements as directed by the assigned District DRCS Nodal Officer.

Stipend and Allowances:

On successful and satisfactory completion of Internship objectives you shall receive a stipend amount of Rs. 10,000 per month which shall amount to Rs. 15,000 for the internship period of 45 days. No further travel / living / food allowances shall be provided by the Ministry and must be borne by the student.

Workplace Conduct:

You will be required to adhere to professional standards of workplace conduct.

Confidentiality and Deliverable Ownership:

During the course of the internship, you may be given access to sensitive and privileged information in furtherance of the work. You will be required to maintain confidentiality of such information failing which the internship would stand terminated and you may be liable to legal action. The final ownership & responsibility of the reports, designs, tools and other intellectual property generated during the course of the internship will lie with Ministry of Cooperation and AICTE.

1. Intern will be present at the office of the DRCS Nodal Officer or any other venue, as notified by the nodal officer/authorized officer of Ministry of Cooperation, to undertake tasks assigned for the duration of the internship. Student will have to communicate to the DRCS nodal officer should there be any reason or inability to be present with acceptable justification.

Terms of Engagement:

1. Intern will be present at the office of the DRCS Nodal Officer or any other venue, as notified by the nodal officer/authorized officer of Ministry of Cooperation, to undertake tasks assigned for the duration of the internship. Student will have to communicate to the DRCS nodal officer should there be any reason or inability to be present with acceptable justification.

2. Intern will communicate regularly with the said nodal officer/authorized officer on the progress of the tasks undertaken and submit cooperatives details on the developed application for approval from the said DRCS nodal officer.

3. Any work products/IPR produced during the internship is a property of Ministry of Cooperation and the terms of its use shall be decided at the discretion of Ministry of Cooperation.

4. Intern shall adhere to workplace norms and abide by ethical standards followed in Ministry of Cooperation. In the instance of a professional misdemeanor or misconduct the concerned authorities may terminate internship offer and take appropriate legal recourse as provided under the law of land.

5. Student shall inform DRCS Nodal officer and AICTE coordinators regarding changes in information submitted in the application and any other documents, including changes contact details/addresses/phone nos. etc., from time to time.

Sincerely,
Ministry of Cooperation and AICTE
Date: 09-12-2022