

 NIIST BHOPAL		NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY DEPARTMENT NAME: <u>COMPUTER SCIENCE AND ENGINEERING</u> <u>LIST OF EXPERIMENTS</u>		FORM NO	NIIST/A/10
				REV. NO	0
				REV. DT	30/06/2011
BRANCH	CSE				
SEMESTER	III				
SUBJECT NAME: Software Architectures		SUBJECT CODE: CS 701			

1	Study of Software development methodology and software quality model
2	Study of common software architecture frameworks
3	Study of Software architecture models
4	Study of Struts as a Software Architecture Description Languages
5	Study of Hibernate
6	Study of Node JS
7	Study of J2EE – JSP
8	Study of RMI and CORBA
9	Study of requirements for architecture and the life-cycle view of architecture design
10	Study of Software Architecture documentation:



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BRANCH	CSE		REV. NO	0
SEMESTER	VII		REV. DT	30/06/2011
SUBJECT NAME: Departmental Elective Lab(Big Data) SUBJECT CODE: CS 704				

1	Downloading and installing Hadoop; Understanding different Hadoop modes.
2	Hadoop Implementation of file management tasks, such as Adding files
3	Implement of Matrix Multiplication with Hadoop Map Reduce
4	Run a basic Word Count Map Reduce program to understand Map Reduce Paradigm.
5	To install and run HIVE in Ubuntu so as to work with Hadoop.
6	To explore Hive with its basic commands: create, alter, and drop databases
7	To explore basic Data Processing operators in Pig.
8	To install and run Apache Pig in Ubuntu so as to work with Hadoop
9	To perform NoSQL database using mongodb to create, update and insert.
10	To count the number of lines in a document using MapReduce Programs.



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BRANCH	CSE			REV. NO	0
SEMESTER	VII			REV. DT	30/06/2011
SUBJECT NAME: Data Mining and Warehousing					
SUBJECT CODE: CS 705					

1	Build Data Warehouse/Data Mart for a given problem statement 1)Identifying the source tables and populating sample data 2)Design dimensional data model i.e. Star schema, Snowflake schema and Fact Constellation schema (if applicable)
2	To perform various OLAP operations such as slice, dice, drilldown, rollup, pivot
3	Implementation of Classification algorithm(Decision Tree/ Bayesian)
4	Implementation of Linear Regression.
5	Implementation of Clustering algorithm(K-means/ Agglomerative).
6	Implementation of Association Rule Mining algorithm(Apriori).
7	Perform data Pre-processing task and Demonstrate performing Classification, Clustering, Association algorithm on data sets using data mining tool (WEKA,R tool, XL Miner, etc)
8	Implementation of page rank algorithm.
9	Implementation of HITS algorithm.
10	Implementation of Spatial Clustering Algorithm- CLARANS Extensions

