OBJECTIVE OF PRESENT WORK

In today's organization, the data warehouse is the center of the information systems' knowledge repository. Data warehousing supports informational processing by providing a solid platform of integrated, historical data from which to perform enterprise-wide data analysis. This helps improve profit and guide strategic decision making. Data mining is a recent advancement in data analysis. Data mining exploits the knowledge that is held in enterprise data warehouses and other data stores by examining the data to reveal untapped patterns that suggest better ways to improve quality of product, customer satisfaction and retention, and profit potentials.

My objective behind this software is to develop a data warehouse which contains data of the software project starting from the client information management to the delivery and maintenance of the project. The entire SDLC of the project will be stored in the data warehouse as many projects are going on in the industry there is a due need of a data warehouse to store all the information of the project at a central location so that all the information when requested by any stake holder will be accessible at any point of time. Data mining can be performed on this data warehouse and relevant information can be displayed to the stake holder. With data mining and warehousing for project management we can move into the future without abandoning the past. Move into the future for the betterment of the information centralization of the project and thus getting the data access at any point of time. A paramount determining factor in the success of data warehousing is the input of Stakeholders. Data warehousing is very unique to an organization, its business processes, Systems architecture and decision support needs. Project management for data warehousing allows for large amounts of user input and at all phases of the project. There are commercial software products tailored for data warehouse project management. A good project plan lists the critical tasks that must be performed and when each
task. should be started and completed. It identifies who is to perform the tasks, describes deliverables to be created and identifies milestones for measuring progress.

In this software I will be creating a data warehouse which will store the data of the project following data will be stored Client information, inquiry, proposal, project planning, design, coding, testing, deployment, maintenance of the projects. All this information will be accessed by the stake holders of the project as this information is centralized mining the data from the repository is very easy task. As and when the stake holder request for the information it will be mined from the repository and will be available on the stake holder’s browser as it’s web based project management software. In order to improve project management and success rates of such projects a life cycle is vital to the overall success of the project.
WORK PLAN

Data is stored in the data warehouse related to the clients project. There is a necessity of miming this data so as to produce the desired results that can be shown to the different stake holders. We will be mining the data from the different table of the database ,the different table contains data related to one client’s project. The tables are as follows.

a. Client information management
b. Inquiry
c. Proposal
d. Requirement
e. Planning
f. Designing
g. Coding
h. Testing
i. Deployment
j. Maintenance

The above data tables contain information which can be mined and displayed as per the stakeholders requirements hence mining of information is necessary for the huge data of the project.As the information on this topic is scanty hither to I have decided to investigate this topic of data mining and warehousing for comprehensive web based software project management in more details.The goal of Project Management Software is to produce a product that is delivered on time, within the allocated budget, and with the capabilities expected by the customer. Project management software is basically a properly managed project has a clear,
communicated, and managed set of goals and objectives, whose progress is quantifiable and controlled.

**HYPOTHESIS**

Data mining for project management is a very important tool for extracting the relevant data from the data warehouse. This data warehouse collects the data from various stages of the SDLC. This software tool will be used to extract information from the different stakeholders. All the information will be collected into a central repository.

As a discipline, Project Management developed from several fields of application including civil construction, engineering, and heavy defense activity. Two forefathers of project management are Henry Gantt, called the father of planning and control techniques, who is famous for his use of the Gantt chart as a project management tool; and Henri Fayol for his creation of the 5 management functions which form the foundation of the body of knowledge associated with project and program management. Both Gantt and Fayol were students of Frederick Winslow Taylor's theories of scientific management. His work is the forerunner to modern project management tools including work breakdown structure (WBS) and resource allocation.

The 1950s marked the beginning of the modern Project Management era where core engineering fields come together working as one. Project management became recognized as a distinct discipline arising from the management discipline with engineering model. In the United States, prior to the 1950s, projects were managed on an *ad hoc* basis using mostly Gantt Charts, and informal techniques and tools. At that time, two mathematical project-scheduling models were developed. The "Critical Path Method" (CPM) was developed as a joint venture between DuPont Corporation and Remington Rand Corporation for managing plant maintenance projects. And the
"Program Evaluation and Review Technique" or PERT, was developed by Booz Allen Hamilton as part of the United States Navy's (in conjunction with the Lockheed Corporation)