CHAPTER-11
Summary and Conclusion

11.1 Summary and Conclusion
Last but not the least I would like to conclude by saying that this analytical study of project management software will help the industry at large in selecting the appropriate project management software for managing various resource and activities in the project under execution. This analysis will also help in identifying the requirements of the company and in selecting the tool for project management, which will best suite the industries requirements for managing the project. As there are number of project management software’s available in the market today I have selected some five project management software to do this analytical research on various features and functions of project management software. Feedback analysis is also carried out from some industries and the stakeholders have replied with valuable feedbacks which has been helpful in identifying the features and functions which are required by the stakeholders to manage the project under execution. Data from various stakeholders who work at different levels in the organization has been collected as the requirement at each level is different and the features and functions, which are required at each level, are also different. Its important to look into these features and functions which were required by the industry personals and to cater to the needs by providing them with a suitable project management tool which give all the required functionality to the system by the various stakeholders of the company. This analysis has helped in figuring out which project management software best fits the industry so that all the features and the functions can be meat easily for all the stakeholders of the company in managing the project under execution. As information on this topic is scant hither too it was decided to investigate this topic in more details and to find out which project management tool best suits the industry so that all the features and function in the industry can be controlled and managed using the best project management software. The research project will be helpful to all the levels of the organization starting from small business to the large business most of the functionalities of the software project management are covered in the research project the software engineering phases are all implemented in the research project all the information is collectively organized in the data warehouse all information about various software engineering projects will be stored in the central repository. Using this software project the stakeholders will
be able collectively work together and concentrate on the central point of the software project under execution also. This research will provide configuration and change management will also be possible. The system will provide interaction facility with the client and the company persons so that exact work can be carried out team building is now possible using this system. The data warehouse is designed and maintained in the central location within the organization various users information and the stakeholders information is stored in this central repository keeping data intact the data warehouse will collect data from central repository the system. Most of the software development team working in synchronization with the project will be connected using this research project collective data management will be possible and most of the system will enhance the system performance. Project manager and the team members will be connected together and work in synchronization so a targeted result oriented project the software which is being designed for the client needs to be worked upon the global environment. Various modules can access the data from the different sources these modules can also communicate with each other modularization of information is also important and to keep the data availability round the clock is also important this can be achieved using the system design and development of the software research project. The various phases of software engineering used in the project management can mutually exchange information stored in the data warehouse easily hence the consistency can be maintained in the data of the software project. The modules provide collaboration between modules and phases the system is designed and developed to provide ease of functionality for project management.

The reporting module will generate the project reports all the reports can be compiled and displayed to the end users using the project. The data-mining algorithm is used to compile the project reports by extracting data from the data warehouse. The data warehouse is a large space SAN storage device the entire project that is going on in the company and which the company completes are all stored in the data warehouse. The information flow occurs across the software modules and all the modules update the data to the central data warehouse using this system the various stakeholders who are connected to the system get the updated information and report related to the project in which they are working.

11.2 Recommendations
Project management software recommendation are as follows Project management software should provide specific recommendation for project manager about who are the best resources
who will be able to work on a given project. Once scheduling is completed by the project manager for a specific resource who is allocated to a project an single sign on alert system should generate alert and send alerts to managerial and key persons who are liable for the project execution. Budget management and tracking of client’s activities should be atomized such that the client can create milestones of the project on his own and release the amount based on the milestone which is achieved by the development team members. CRM module should integrate with the project management module and should exchange information from a common database system so that information flow can be achieved between different modules and products. An ability to record client requirements using various methods text audio and video should be possible using the project management software. SSL and secure channel for communication should be established so that the project related information is not leaked outside the company hence security is a major concern in project management. The other hashing algorithms can be used to store the data into tables so that they can be accessed easily the hashing algorithm will have central data storage table and hashing index can be implemented to access data from the data depository the system needs to keep track of only the hashed values which can be utilized by the other systems also. Information migration modules should be designed where migration takes place is sleep mode deployment into the system. Security can also be enhanced for accessing the data from the central data warehouse the security algorithms for encryption like MD5 can be used to encrypt the user’s data also the stakeholders passwords can be encrypted using the MD5 algorithms. The data centers need to have security too or else all the data centers should be hybrid cloud ready and information should be synchronized between the local data servers and the cloud ready servers. Synchronization modules should be used to keep the data synchronized between various places of the client location today system are more connected and they collaborate with each other to mutually exchange information. Resource utilization track records can be maintained so that optimal availability can be achieved and system can be utilized to its optimal usage.

11.3 Future Scope
Project management software has following future scope: The project management software should be able to manage cross functional project of different domains such as manufacturing industry, petroleum industry and social industry for agricultural development. Project
management system should adopt agility so that modularization and work break down structures can be adopted easily in the project management solution which the industry will procure. Plan driven approach should be followed for completing tasks in the project management system clients plan is the most important document which needs to be managed and which should be followed very carefully using the project management software client needs should be given top priority while completing software development project within time and allocated budgets The system design and development can be enhanced also the functioning of exchange of data can be extended a cloud ready system which can be created if the project data is increasing its important to keep track of the records in the data warehouse information about the project keeps on increasing so its important to keep track of the storage requirement in the data depository so incase if we need to keep track of this information the system can be shifted to a hybrid environment where a central copy of the project can be maintained and also a global copy of the same project can be maintained these copies can be synchronized and the system can be extended to the cloud ready environment. In this system design and development we need to maintain security so we need to design a hybrid environment to secure the users data. The comprehensive model of the system is more collaborative and information exchange is more important to keep track of all the changes in the system we need to design a integrated environment also the data depository and new optimized data mining algorithms can be used to extract data from the data warehouse and generate the results which are required by the clients the information about the extraction of the information from the data depository can be done easily using the system design and development modules. Also the alerting system can be enhanced to suit the needs of the latest devices and the new operating systems, which are coming in the market today. Hence a continuous updating and purgation to the latest technology should be easily possible the system designed should be easily mi-gradable to other places incase required by the location of the client.

11.4 Limitation of research work
As now system is a perfect system there are some limitation of this product too some of the limitation of the product are listed below.

a. Environmental Hazards
b. Technical Hazards
c. Human Hazards

1. Software Limitations

   The Software limitations are that the system on which the PMS Installed should contain the IIS server and the visual studio 2005 installed.

2. Hardware Limitations

   The system used for managing the project related activity uses some hardware resources which need to be configured so that the system for managing project activities can be achieved easily thus PMS needs to be deployed on the stable hardware solution provided by the hardware companies. As the PMS is a networked system it needs to be accessed over the local area networks and the wide area networks so its important that a stable internet connection will be provided to the hardware machine on which the system is deployed and the connection will be having a static IP address which can be accessed from outside the company using the software solution to manage projects related activities. The current supply to the system should not be interrupted to keep the stakeholders working on the system without any interruption and without any difficulty in connection with the server when required. The stakeholder will be granted access to the system via the authentication process so once connected the stakeholder should not be disconnected without any hardware related issues.