# Completely Automated Project Management System

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**Abstract**— Final year projects are a very crucial and an imperative aspect of an Engineer's career. Our Project aims to lessen the burden on students as well as their project guides by automating the weekly progress report submission which is currently carried out in a manual fashion. It further enhances and improvises the project making and assessing process by keeping the guides well informed with the student's progress and provides students with a timely check on their project status. Our project is Environment Friendly because it reduces the usage of paper as every report, remark and guidelines are submitted and made available just at a click of a mouse.

**Index Terms**— Data Flow Diagram,Unified Modelling Language ,Project Management System,Project Management, Spiral Model, Software Project Management, Visual studio ,Finall Year Project ,Automated Project Managemnet System ,Team Project, Online Project Management System .

## 1.INTRODUCTION

In group projects, students learn to work together, delegate responsibilities, and manage time. It is difficult for instructors to evaluate the performance of students participating in team projects. Evaluation of an individual's performance requires a fair comparison of the team's work as compared to other teams in the class. It also requires an understanding of the intra-team dynamics. The project CAPMS, is a new, web-based portal that provides automated features to manage, evaluate, and grade team projects.

## 2. LITERATURE SURVEY

Atsuo Hazeyama, Seiichi Komiya [1] takes into consideration the project management system between managers and workers. Constructing an integrated software project management system with an object database was the main idea behind the System. They also describe a framework for inducing the sequence of operations that the project manager must perform in order to form a efficient system between the two parties.

Rahat Iqbal, Richard Rider, Nazaraf Shah, Anne James [2] mention that an important aspect of redesign for usability is to evaluate the system with its real users in order to identify key areas for improvement. The system is used by a wide range of users; academic staff, students, external clients and administrative staff so the system must be updated as per the users requirements so as to make it more convenient.

Jitendra Singh Kushwah, Abhishek Chaturvedi, Parul Sharma [3] states that Areas of responsibility for the person handling the project include planning, control and implementation. It should be initiated with a feasibility study, where a clear definition of the goals and ultimate benefits need to be determined, so as the system never fails at any time and provides the ultimate interface for a hassle free experience.

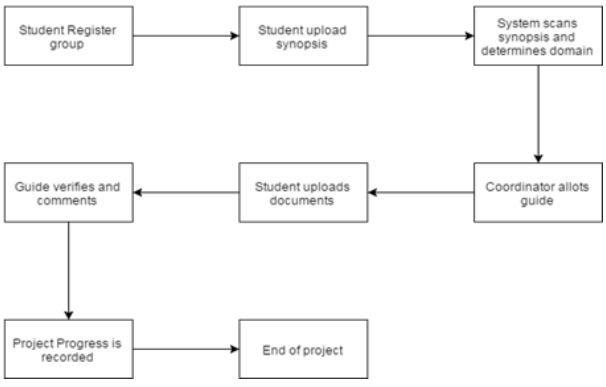
John W Lockwood [4] explains an important point about automated team project management and evaluation through interactive web modules. He explains that in group projects, students learn to work together, delegate responsibilities, and manage time. It is difficult for instructors to evaluate the performance of students participating in team projects. The topic, introduced in this paper, is a new, web-based learning tool that provides automated features to manage, evaluate grade team projects.

## 3.PROPOSED SYSTEM

### 3.1 Modules

#### 1. REGISTRATION

The Registration module is used for registration of new users. The user is required to register in order to access group history and the visualization project feature. The user is also required to properly visualize the interface and follow the instructions the project guide gives and follow the deadlines for timely submission.




Block Diagram Of Completely Automated Project Management System

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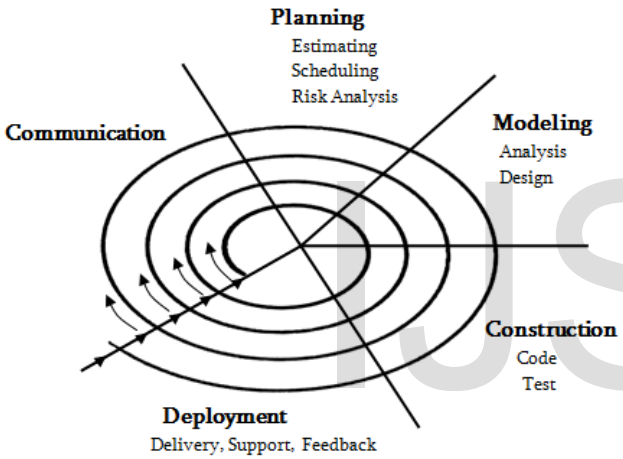
### 3.2 TECHNIQUE TO BE USED

For accessing the Online Project Management System, a web application will be used. This web application will be formed using PHP which is open source, thus eliminating the cost of acquiring the software. For visualization, Visual Studio will be used which is again open source. The cost of maintaining the application is also close to nil as the website is capable of operating on its own. The only maintenance would be for updating the interface as and when required.

## 4. PROPOSED METHODOLOGY

The project follows the software development life cycle and uses the spiral model. The spiral model consists of the phases shown in the figure.




Spiral model

The spiral model has five phases: Communication, Planning, Modelling, Construction and deployment. The Advantages of Spiral model are High amount of risk analysis hence avoidance be referred to after the reference of Risk is enhanced. Good for large and mission-critical projects. Strong approval and documentation control. Additional Functionality can be added at a later date. Software is produced early in the software life cycle. The Project generally will follow a cycle starting with user registration, guide allocation, completing the different modules according to the deadlines followed by the blue and the black book submission.

## 5.EXPECTED OUTCOME

The outcome would be an effective automated project management application which will provide the students with an automated portal for their final year project with a clear direction as far as their projects are concerned as their completion of projects will take place conveniently and smoothly by providing a hassle free experience for the students as well as the faculty.

## 6.CONCLUSION

The Online Project Management System will help the students as well as the guides to follow the final year project in a convenient way and also follow all the deadlines in a systematic way. This Online system will help them in managing their final year projects with their studies without getting too much of a burden and completing the projects on the time.The knowledge base will undergo continuous refinement in order to provide users with flawless interface.

## 7.REFERENCES

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