PROJECT ONLINE WORK TRACKING SYSTEM

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Abstract- **Project management system will help College, Institute to manage their project work and the review the work of ongoing projects. This project system will uses all the concepts which are used theoretically in software engineering. All the calculation methods such as all project model has been implemented under this system. This system will help project managers to analyze the problems of a particular project and identify how to start up and fix its time periods and the cost involved in the overall development of a particular project. The system also help the project managers to select various type of built in scraps which are developed previously and can be used in the present ongoing project which can reduce the development period. This system has built in ability to record working time period ongoing projects such as number of days involved in documentation, in designing etc. It will help to identify project Domains, how many numbers of users are involved in particular project and on what module currently they are working. Project Members has the authority to set time limit for working on particular module and the users have to submit the work on limited time. This system also facilitate to work on agile method which help the project members to complete the taken project on time with more accuracy. Our project basically focuses on providing an environment that will help how develop the projects for learners. The architecture of – Project Management System encompasses of system specifications and an actual working application based on Web Based platforms. – Project Management System will also import Engineering learning contents from Oxybrain Technology Pvt Ltd. The system will also provide Web based – Project Management System, The framework will include Cognitive Science Research Implementations carried out recently at Oxybrain Technology Pvt Ltd by the prodigies in the field of education.**

Key Words: **Domain, Environment.**

INTRODUCTION

Present project management system has built in system to make cost benefit analysis before starting development process. Project Members has the facility to check whether all the resources are available before starting any project. Project group members will have the facility to make communication between group members online and share information on going modules. Each group will have information of other project group and their completion details, which eliminate the process of repetition work. Some special tools can be used by project managers to make project a cost cutting edge technology, so that they can provide software's to their customers in the lowest price. Project management system will help College, Institute to manage their project work and the review the work of ongoing projects. This project system will uses all the concepts which are used theoretically in software engineering. All the calculation methods such as all project model has been implemented under this system. This system will help project members to analyze the problems of a particular project and identify how to start up and fix its time periods and the cost involved in the overall development of a particular project. The system also help the project members to select various type of built in scraps which are developed previously and can be used in the present ongoing project which can reduce the development period. This system has built in ability to record working time period ongoing projects such as number of days involved in documentation, in designing etc. It will help to identify project members, how many numbers of

users are involved in particular project and on what module currently they are working. Project manager has the authority to set time limit for working on particular module and the users have to submit the work on limited time. This system also facilitate to work on agile method which help the project members to complete the taken project on time with more accuracy.

OBJECTIVE
1. The successful development and implementation of all project's procedures.
2. Productive guidance, efficient communication and apt supervision of the project's team.
3. The achievement of the project's main goal within the given constraints.
4. Optimization of the allocated necessary inputs

LITURATURE SURVEY
• **"Basic Project Management Documentation Based on the Example of the Student Project AGH Lean Line."** The aim of this work is to trace and present basic project documents and to present simplified project management on the example of a student project. The paper contains a short definition of the project and the growing popularity of project management. Then, a student project of AGH Lean Line, consisting in the construction of a construction project in the field of management and production engineering and promotional activities through conference trips, was presented. Project management is based on basic project documents, which were collected and briefly characterized according to the methodology developed in the scientific community. At the end, individual documents created for the AGH University of Science and Technology (AGH) project were presented.

• **" Survey of Web-Based Project Management System"** t-A project management system is a means of project planning, organizing, and managing its different required aspects. Many researchers have used many techniques for automating the project management system by providing features such as real-time tracking, scheduling, and task management. Task management is the prime features of the project management system which includes on-time completion, report generation, work distribution and which forms the basis of successful project management. This paper presents a comprehensive survey of all such web-based project management system and proposes a system based on the findings

• **"Learning project management through case study: Project work as case study."** Project Management has evolved as a necessary domain in today's work scenario owing to the scale and nature of projects. So, a course on project management cannot be ruled out for the undergraduate curriculum. This paper discusses learning project management through alternate methods such as case study. The students plan their term project, submit a Gantt chart and share their experiences at the end of the project on the methodology. Students get to use project management methodologies even while studying and hence are better prepared engineers.

PROBLEM DEFINITION
Project management system will help College, Institute to manage their project work and the review the work of ongoing projects. This project system will uses all the concepts which are used theoretically in software engineering. All the calculation methods such as all project model has been implemented under this system. This system will help project managers to analyze the problems of a particular project and identify how to start up and fix its time periods and the cost involved in the overall development of a particular project.
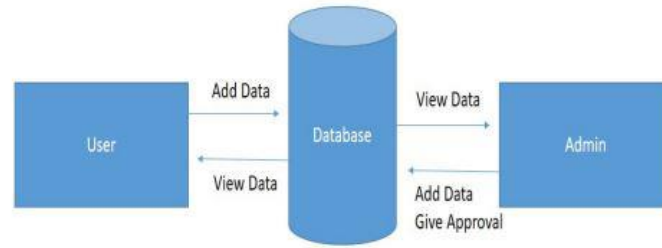
SYSTEM ARCHITECTURE

Fig -1: System Architecture Diagram

An operating system (OS) is a set of programs that manages computer hardware resources, and provides common services for application software. The operating system is the most important type of system software in a computer system. Without an operating system, a user cannot run an application program on their computer, unless the application program is self booting. An Application Programming Interface (API) is a particular set of rules (code) and specifications that software programs can follow to communicate with each other.I t serves as an interface between different software programs and facilitates their interaction, similar to the way the user interface facilitates interaction between humans and computers. An API can be created for applications, libraries, operating systems, etc., as a way of defining their vocabularies and resources request conventions (e.g. function-calling conventions). It may include specifications for routines, data structures, object classes, and protocols used to communicate between the consumer program and the implementer program of the API. the system consist of a core set of packages and classes. As shown in the Figure 4.1 the applications will be built using the Project Management System. These applications will be built by importing the libraries, include files and the style sheets developed as a whole framework. The framework is developed considering the developer's point of view that is to be able to develop the applications by putting in less time and efforts. Thus the developer will access the API's present in the framework and develop the applications by writing small amount of code.

APPLICATION:
1.   Schools and Colleges
2.   Government Sector
3.   Corporate Sector
4.   Public sector

FUNCTIONAL & NON-FUNCTIONAL REQUIREMENTS
Functional requirements: may involve calculations, technical details, data manipulation and processing and other specific functionality that define what a system is supposed to accomplish. Behavioral requirements describe all the cases where the system uses the functional requirements; these are captured in use cases.
Nonfunctional Requirements: (NFRs) define system attributes such as security, reliability, performance, maintainability, scalability, and usability. They serve as constraints or restrictions on the design of the system across the different backlogs.
Functional requirements
● Registration
● User Login
● Creation of database: Users Mandatory Information
Design Constraints:
1. Database
2. Operating System
3. Web-Based Non-functional Requirements
Security:
1. User Identification
2. Login ID

3. Modification

Performance Requirement:
1. Response Time
2. Capacity
3. User Interface
4. Maintainability
5. Availability

SYSTEM REQUIREMENTS
- **Hardware Requirements** :
1. RAM : 512 MB
2. Hard Disk : 80 GB
- **Software Requirements** :
1. Operating System :Windows 7 or higher
2. Eclipse IDE 2018 / pycharm
3. Software Technology: Java / Python.

CONCLUSION
Project management system will help College, Institute to manage their project work and the review the work of ongoing projects. This project system will uses all the concepts which are used theoretically in software engineering. Project management is the primary tool for executing the business plan, installing the businesses processes, and achieving the strategic ambitions of the entrepreneur. Project management helps to detail what tasks will be accomplished, who will be involved in completing the tasks, and when tasks should start and finish. Typically. Identifying student's problem with project development process and sort out them. Projects progress in steps or incremental stages; however, other approaches for rapid, interactive project management are also widely used. Several tools can be used to manage the project and communicate timing and status, including task diaries, WBSs, and Gantt charts. Projects fail for many reasons. It is management's responsibility to determine whether the inherent risks in the project can be accepted and the project can be launched, or whether the project be delayed.

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