Project Management System (PMS)

Archit Jain1*, Swayam Kolabkar2, Kiran Netke3, Pramila Mate4
1,2,3Student, Department of Computer Engineering, Terna Engineering College, Mumbai, India
4Assistant Professor, Department of Computer Engineering, Terna Engineering College, Mumbai, India
*Corresponding author: jainarchit998@gmail.com

Abstract: Project Management System is a Software or application which provides a real time platform to manage a project and allows various users to interact with it. Project Management is a result of the various technical advancements due to which it is possible to create a system where such tools or features are available for management of tasks and processes. It synchronizes a number of users in a managing platform and brings about the commencement of the project.

This project offers a Web Based Platform which allows the users to manage, Evaluate and complete tasks. The System works on the principle of User features which allows the user to create a group on the platform. Further that user can add members to the group and the group members are assigned tasks in that group just as a project team. The group can work on the issues regarding this and can even resolve these issues to get optimal solutions. The entire system is based for the management of such tasks to bring about the working of the group in cooperation and form a project. There are various types of system Users which bring about various processes of Management of the Project.

Keywords: Project management, Project monitoring, Project modules.

1. Introduction

Web based project management systems are designed to manage and store project information that are used in web-based applications. By different groups of people such as, seals department, programmers or project managers will be let by project applications a controlled access to information and automated distribution of information. The objective for collaboration has been: getting thing done faster, cheaper and better by applying their common knowledge, bringing together a selection of resources and attainments in a project.

Since web-based applications can be accessed through any web browser, no desktop installation or updates are required. Moreover, developers, who write great code while staying out of the way are able to use it along the distance, while they stay in geographically different place and collaboration between team still exists.

Managing the projects manually is very stressful job. But using simple web portal anyone can carry out their project related work which is the main aim of Project Management System (PMS). It provides students, Project coordinator and Project guides a simple web portal to manage and monitor the overall project activities. All the modules of the system have a unique user id and password. Then any module can login into the system using their id and password to get authenticated further.

PMS allows the group of students to provide at least three project domains and then the system will automatically assign the guides to the groups of students. Admin is the main module of the system which assigns various tasks to the students. Admin and Student interacted with each other. Depending upon the different parameters related to the work assigned by the admin, the progress chart of the group is created and grades will get automatically assigned for the particular group of the students. Details are sent to the groups about the important notices and updates related to their project.

2. Literature Review

<table>
<thead>
<tr>
<th>Author</th>
<th>Year</th>
<th>Title of Paper</th>
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<tr>
<td>Mane-Mais, Andramoc</td>
<td>2010</td>
<td>WEB BASED PROJECT MANAGEMENT SYSTEM</td>
<td>The paper has the model, which drives the entire system architecture to the brand new software product ideational system that can forward fast to gain control organization. On this paper, the complex issue is complicated and abstract problem pietionrightly by base. It takes software volume manages project visualization and controllable in simple intention.</td>
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<tr>
<td>Gregor Pakozdik, Wojciech Zborowiecki, Andrzej Niedzialko</td>
<td>2009</td>
<td>Web-based Project Management System</td>
<td>In this paper, a method is proposed that extends the goal-question-answer technique and analyses the problem of satisfactorily doing via a multi-agent system with the assist of cooperative building agents. Conduct for proactive vs. cooperative vote balancing the effective measures.</td>
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<tr>
<td>Aven, A. Taras, Chaykov, C. Besnoiko, Miralle Obat, Chukovetska Okhler</td>
<td>2016</td>
<td>A Web-Based Project Management System</td>
<td>In this paper, the authors have defined mini-music, which offers a specialty of numerous areas of IT Enterprise and assignment control which can be a hobby to diverse lectures and practitioners.</td>
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Fig. 1. Literature Review

3. Problem Statement

Now-a-days to manage a project has been a difficult task. For Managing different modules of project we have created a PMS which manage the projects. Web based project management systems are designed to manage and store project information used as web-based applications. It is a cheap and effective way to manage the projects.
4. Methodology

Fig. 2. Iterative model

We will use the iterative model here, which is employed for the design, planning, implementation and achievement of project objectives. We use this model because all the specifications and predictions should be done at the beginning of the iteration and they are stable to the end. We decided to use iterative model but allows user to change/update/delete requirements at any stage.

Our system will provide an optimized platform for the project management phase also bringing the whole team together.

5. Requirements

A. Hardware requirements
   - Processor: Pentium 4, intel i3/5/7 generations etc.
   - RAM: 2GB/4GB or higher.
   - Monitor: screen resolution of 1024x768 pixels or higher.

B. Software Requirements
   - Languages: HTML, JavaScript, Bootstrap, Java
   - Database: MySql
   - Browser: Chrome, Firefox, Internet Explorer

6. System Architecture

The above image represents the architecture for flow of Admin. The admin is the head of a group and has all the rights of the group created on the platform. He will create a group and then work on joining members into the group. The members will be an equal part of the group and can join the group and be able to look at the various tasks assigned in that group. The admin will maintain a cooperation between the members and bring about the working of the project’s tasks. He observes all the Users and identifies if there are any issues with the team and thus bringing the management of the project.

- Create Group
- Manage tasks and members of the group
- including all the features of the USER

The above image represents the architecture for flow of User. The members can create an account on the platform and join the group with unique ID’s. They can then connect with the rest of the members and view the tasks assigned. The work on these tasks and coordinate with the admin and other members and bring all the changes in the project.

- Login to its Own account
- Work on issues or task
- Comment and Discuss issues

7. Results

The concept is given practical light through a web-based application. The main motive was to make fast and effective system which could manage the project or task given to particular or groups. With this all the user who able to manage their project or task in an effective way according to their needs.
8. Conclusion

Project Management System (PMS) is a very effective application which can be used to a great extent. PMS have many advantages over the traditional system. Some of these advantages are centralized data, up-to-date status reporting, ease of use, backups etc. The use of this application reduces the extra time and efforts required to manage and monitor the final year projects in colleges. With the system, all members once added to a new project can message each other, and keep tabs on the progress of the project. It is recommended that this web based project management systems should be deployed wherever the need to manage projects efficiently arises. They are convenient to use, save time and resources, and reduce both stationery and labour costs. For further studies, this system can be modified by other researchers to be adapted in their various areas of study.

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References