

# **PROJECT DEVELOPMENT SYSTEM**

**Submitted By**

**Aswathy P  
Roll No:15  
S5 Reg MCA**

# **PROJECT DEVELOPMENT SYSTEM**

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Guide: Gloria Mathew

## **1.Project Overview?**

Project Development System is a software, including estimation and planning, scheduling, cost control and budget management, resource allocation, collaboration software, communication, quality management and documentation or administration systems, which are used to deal with the complexity of large projects. Collaboration and communication being the key factors in driving any project to success, Project Development System, allows all participants to share ideas, documents and most importantly enter, distribute and track all tasks required to reach a common objective; from any browser.

## **2.To what extend the system is proposed for?**

The main objective of the proposed system is to overcome the limitations of the existing system. Project Development System is a system that provides a web application for a software company for supporting the planning of human resources and project management. Resource planning is a key to success of any project. The main concepts of the system are tasks on one hand and employees on the other hand. Tasks need to be completed in a certain time by a limited number of employees with specific skills. The system supports the process of associating tasks to the right employees in a way that due dates are met while every employee gets a constant workload and also the work of each of the employee can be analyzed efficiently. Project Development System offers better control and efficiency, ensuring the successful completion of your projects on time and within budget, but most importantly, respecting your company's work processes, thus eliminating the learning curve and associated costs of a work team using new software.

### **3.Specify the Viewers/Public which is to be involved in the System?**

it will be available through internet so general public will not be able to access due to security

### **4.List the Modules included in your System?**

#### **1.Administrator**

Administrator is the authorized person who is concerned with managing project managers, projects and client interaction. He can add, edit or delete project managers, he can view reports from project manager, he can communicate with the clients about the status of a project or details regarding the invoices. He is the controller of the entire system. He is the top most level of user having the permission to assign a project to the project managers.

#### **2.Project Manager**

Project Managers are one type of user in this project which are added by the administrator. The project manager is the authorized user to add team leaders and employees to a particular project. He can also assign a project or part of the project to a particular team leader or group of team leaders under his team. He can collect the status and details of the projects, teams and employees in different teams under his supervision. He can view reports from the team leader about various stages or phases of a project assigned to the team leader.

#### **3.Team Leader**

Team leaders are the type of users who are responsible for managing a fixed number of employees assigned to his team for the successful completion of a project. He has the right to divide the project into different modules and he can assign each module to the employees in his team. He can control the work flow of entire modules in the project assigned to him. He can view reports and status of the work done by the employees and he can manage the time allotted for each employee to complete the task. There should be a dashboard facility to team

leaders through which they can view the tickets and milestones of each and every employee in his team. He can also request project manager to add new employees into the team if needed or he can request the project manager about the extra time required to complete a project.

#### 4. Employees

Employees can view the different tasks or modules in a project assigned to him by the team leader. He can also have the facility to view the time allotted for a particular task and he can see a track record of his completed as well as incomplete works. Employees have the option to communicate with other employees in his team and with team leader also through internal messaging systems. They have the option to update their work status also. Completed works can also be coordinated through this web application.

#### 5. Clients

Clients have the facility to login to the site and they can view the status of their project, they can settle their invoices, can inform the administrator about the modifications required in his project etc. He can see the development of his project through a dashboard system in which his project is divided into different modules. It will also show the completed task in each module and incomplete tasks in the project. He can communicate with the administrator about the project and payment details through internal messaging system.

### **5. Identify the users in your project?**

- 1 Administrator
- 2 Project Manager
- 3 Team Leader
- 4 Employees

**6. Who owns the system?**

Own the system by organization

**7. System is related to which firm/industry/organization?**

Web Developing firm

**8. Details of person that you have contacted for data collection?**

Kapil Mohan

Project leader

Thirdeye Web Solution, thiruvalla

**9. Questionnaire to collect details about the project? (min 10 questions, include descriptive answers, attach additional docs (e.g. Bill receipts, certificate models), if any?)**

1 company information and major clients?

Attached company profile Document

2 current methods of collecting requirements, scrutinizing it?

Currently, requirements are collected either through telephonic conversation or through emails. In most cases project requirements change over time and is adapted accordingly.

Requirements are manually checked and may need to avoid impractical solutions.

Requirements needs to be tailored to meet their expectations

3. how resources are currently allocated?

Resources are manually allocated according to their availability and experience in previous projects. Resources with experience in similar projects are given higher priorities.

4.how work hours and budget is calculated?

Projects are divided into simpler modules with deadlines. Each sections are assigned to resources with possible work hours.

Work hours with constant multipliers with possible overrun and company charges are added for finding final budget

5.how team members collaborated?

We are currently using slack for internal collaboration, in addition there are other team dependent tools. For eg: app development team uses shared workspace in postman for sharing api, designers share prototypes through Adobe XD, which makes developers easier to find development resources

in official communication emails are used

6. how project is currently documented and verify all requirements are completed?

Projects are manually documented and shared to other team members for verifying. In addition, team members are provided with cool off time for preparing user manuals. Requirements are manually checked for completion, it's common for developers to miss some requirements.

7. is there any way to predict over run of project?

It's currently difficult to predict overrun of projects. It's normal for clients to change requirements and so the deadlines of projects. Sometimes additional resources are used to deliver projects on time. Performance is monitored manually, currently it's not accurate

8.how work status and performance monitored?

Daily status mails are used for project monitoring. While scheduling the project a worksheet is created with deadlines and status for each sections. Resources complete the sections and change status in these worksheets. Currently following qualitative assessment for resources

9. how multiple clients are handled?

Clients are handled according to their priorities. Experienced resources are allocated to high priority clients. While handling multiple clients resources are distributed accordingly, in some cases resources may not be sufficient any may scheduled them for later or allocated single resource on multiple projects

10. is the current systems sufficient?

Currently we are facing difficulties in finding unallocated, in some cases projects are procured before proper availability of resources and so faces difficulties in delivering projects on time. Works hours calculation is a tedious task, is possible to automate.