**ONLINE Development Part Verification System**

**Objective:**

The project entitled “**ONLINE Development Part Verification System**” deals with the various levels of project development and will account for time used in analysis, design programming, testing and verification, etc. It is well known fact that software companies under take huge projects more than one at a time. Hence there is a profound need for the organizations to manage all the projects efficiently and ensure that projects cycle goes on smoothly and they are completed on time.

During the lifetime of a project, the organization has to commemorate (recall) all the activities of the project. This tool makes it easier for the organization to monitor the projects. It maintains records and tracks various parameters that influence software project development process and helps the management to take decisions at various stages of the project development.

The product will assist the organization in maintaining record of every project it undertakes. All the information relevant to the projects like size, time, effort and departments involved, etc is maintained by this tool.

1. Masters is a place where we maintain the record of the entire projects undertaken, departments involved in the project and details of employees.
2. Transaction is the place where we carry out required operations with respect to parameters like size estimate, effort estimate.
3. Reports generated, for the operations we committed in the Reports module.

**Existing System:**

It is well known fact that software companies under take huge projects more than one at a time. Hence there is a profound need for the organizations to manage all the projects efficiently and ensure that projects cycle goes on smoothly and they are completed on time. During the lifetime of a project, the organization has to commemorate all the activities of the project. In this system they follow the manual process of maintaining records.

**Problem Statement:**

The project manager would be involved in creating detailed plan of the project and getting into the details of the delivery process. Several projects are in various stages at any point of time. Clients also insists on regular updates on progress of the project with details on which elements have been completed .The internal project manager find it difficult to have complete picture of the life cycle from the excel sheets they maintain ongoing projects.

**Proposed System:**

It is well known fact that software companies under take huge projects more than one at a time. Hence there is a profound need for the organizations to manage all the projects efficiently and ensure that projects cycle goes on smoothly and they are completed on time. During the lifetime of a project, the organization has to commemorate all the activities of the project. This tool makes it easier for the organization to monitor the projects. It maintains records and tracks various parameters that influence software project development process and helps the management to take decisions at various stages of the project development.

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**Advantages:**

* This system maintains user’s personal, address, and contact details.
* User friendliness is provided in the application with various controls provided by system rich user interface.
* This system makes the overall project management much easier and flexible.
* Various classes have been used for maintain the details of all the users and catalog.
* The system also provides facilities to manage different projects and it’s sub modules online efficiently.
* The system also provides facilities to manage project assignment to Team Leads by manager and sub module assignment to developers by Team leads. This system has also facility to manage different developer teams and their assignments to team leads.
* This system is providing more memory for the users to maintain data.
* This system is providing accessibility control to data with respect to users.
* This system also maintains the user hierarchy (system).

**Number of Modules:**

The system after careful analysis has been identified to be presented with the following modules:

1. Authentication and Security Module
2. Admin Module
3. Client Module.
4. Employee Module.
5. Query and feedback Module.
6. Reports Module.

**Modules Description:**

1. **Authentication and Security Module**

* The user details should be verified against the details in the user tables and if it is valid user, they should be entered into the system.
* Once entered, based on the user type access to the different modules to be enabled / disabled.
* Individual user can change their default password or old password.

1. **Admin Module**

This module consists of the following sub modules:

1. **Registration Module**

* Admin register new employees and store their details in database.
* He also register new projectsand store their details in database.

1. **Users Management Module**

Here admin manages different type of users.

* He can view/update their details, can delete them if requirement comes.
* He also manages teams of developers here and their assignment to team leads.

1. **Project(Task) Management Module**

* Assign, view, modify and delete projects according to requirement. Here admin also can assign these projects to team leads.

1. **Client Module**

This module has following sub modules:

Here client can add a new project and view modify and delete them according to requirement. The Details of the project added by the client. i.e. project name ,allocate the project to the corresponding project manager:

1. **Employee Module( Team Lead and Developer ) :**
   * + Here team leads create sub modules of an assigned project. And manages this according to requirement.
     + Here Employee view the subtask assigned by the team lead and set the status means how much effort spent to the assigned the task. He can also able to send the queries to team lead or manager and view the reply.

The Details of the project added by the client i.e. project name, allocate the project to the corresponding project manager:

1. **Query And Feedback Module:**

Using this module the system maintains a query and feedback sub system in between users. A user can make a query to his superiors regarding any matter and a user can reply the queries made to him.

1. **Reports Module:**

In this Module the User and Administrator can generate the different types of Reports according to their access.

**Software Requirements:**

Operating System : Windows XP/2003

User Interface : HTML, CSS

Client-side Scripting : JavaScript

Programming Language : Java

Web Applications : JDBC, Servlets, JSP

IDE/Workbench : My Eclipse 8.6

Database : Oracle 10g

Server Deployment : Tomcat 5.x

**Hardware Requirements:**

Processor : Pentium IV

Hard Disk : 40GB

RAM : 512MB or more