**Efficient Web-based Software Project  
 Monitoring, Tracking and Control System**

**Description**

The project managers, ensure that products or services delivered to customers , meet their expectations for better quality and satisfaction .Statistical Process Control is the use of statistical tools and techniques to analyze a process or its outputs to control, manage, and improve the quality of the output or the capability of the process .

**Technology details**

PHP , Micro soft SQL

**Excepted output of project**

**Screen details**

1. Client module
2. Admin module
3. Project module
4. Employee module
5. Project scheduling
6. Time tracking
7. Report

**In preprocessing**

**1.Client module**

The client details are stored in a centralized server. Each client will be allocated a unique id to track the client easily. The details of the client project information will be updated in the server. For consuming necessary time, keeping all troubles less, and to organize all documents into one place and most important , to keep track of projects that are in production for customers or for keeping an eye on errors or mistakes that occur during the work process, then a good web based management system.

**Admin module**

The details of the employee project information will be updated in the server for consuming necessary time, keeping all troubles less, and to organize all documents into one place and most important , to keep track of projects that are in production for customers or for keeping an eye on errors or mistakes that occur during the work process, then a good web based management system

**2.Project module**

The project activities are portioned and the requirements are allocated to the project based on the client requirements. The budget, duration of the project activity, technology details are updated in the module. 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.

**3.Employee module**

The employee personal and official details are registered for project allocation based on the skillset of the employee. Each employee is allocated with specific id and it will be easier to track the employee time sheet work allotment.

**4.Project scheduling**

The project allocation is performed based on the projects and the employee availability and skillset

and duration of the project. The time allocation is also performed in the scheduling process. The

complete work scheduling process is finalized with term of the client modules.

**5.Time tracking**

A smart time tracking web application for individuals and/or teams, to see how much time employee spends on client project, task and/or activity. See individual time in the reports, which user can filter and group by client, project, etc.

There are many features. The main benefits from Time Tracking are:

Find out how employee spend time and monitor the time expenses

* Increase efficiency and earn more for hourly paid work
* See the productivity of team improvement
* Know the profitability of tasks and projects

**6.reports**

The web application will help to arrange reports management inside company, by keeping documents in one centralized server. Also, the most important it helps to keep track on new projects that are implemented and for those that are under implementation for customers and also to keep eye on errors or mistakes that occur during our work process for some projects. The system is web-based; there is a possibility to add documents/specifications for the specific project.

**Table Description**

PK Primary key

**1.client \_table:**

Client id– int [PK]

Client name– nchar(50)

Company name – nchar(50)

Mob num – int[PK]

Project name- nchar(50)

Address - nchar(50)

**2. Admin \_table:**

User name– nchar(50)

password – nchar(50)

**3. Project\_table:**

Project id-int[PK]

project name – nchar(50)

Technology– nchar(50)

Duration – int [PK]

Budget – int[PK]

**4.Employee \_table:**

Employee id – int [PK]

Employee name – nchar(50)

Address – nchar(50)

Email – nchar(50)

Technical skills – nchar(50)

Experience – nchar(50)

**Testing**

Following this step a variety of tests are conducted.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test case no** | **Description** | **Actual result** | **Expected Result** | **Result** |
| 1. | Test for all cache responses. | All cache responses should be in the approximate value around 28.9 ms | All cache responses should be in the approximate value around 28.9ms | Pass |
| 2. | Test for various responses | The result after execution should give the accurate result | The result after execution should give the accurate result | Pass |