Project Allocation and Employee Effort Tracking System

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Abstract:-

The project effort tracker system is aimed at developing a Web based system, which manages the activity of "Student Project Allocation and Management". The main objective of the proposed system is to provide information instantly as and when it is required. The main objective is to make the Hostel information details more efficient and effective. This system should maintain different data files, so that the data can be retrieved easily and in an efficient manner. The system is very interactive. It should ensure process integration to the desired extent, various reports should be generated as the need be. This system should also ensure that there is no redundancy in the recorded data. This project is aimed at developing a Effort Tracker System that is of importance to an organization. The Effort Tracker System is used to track the employee activities and summarize all related activities with the total hours spent and percentage efficiency utilized and generate a report for the same.

I. INTRODUCTION

Project allocation and tracking system can be used by organizations to make the entire process online. Project has five roles in this system mainly, an administrator, a professor, a student, a lab assistant and a viewer. An administrator logs into system and can register a professor who belongs to that institution. Administrator is also approving for making changes to the database. Students register in this system and get user-id and group-id. Students have to provide details like their marks and preferences about project titles. According to this information project and mentor will be assigned to them. After allocation, students are responsible for fulfilling the milestones set by their mentors.

Faculty members, after login, can view the groups under them and can track their progress by checking if deadlines are met proper attendance is met and schedule reports are submitted. Lab assistant is responsible for attendance of students. He will also be register by administrator. A viewer need not log in. He simply can view the gallery aspect of project.

Till date there are many universities and colleges which manually allocate and trace all the projects assigned to students. This process is mainly carried out for final year students. It means that a college allocates a student group id, project details and a mentor who monitors student's progress. It also includes setting milestones, submission of reports and scheduling presentations. A mentor may have to monitor more than one group's progress.

The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach.

- 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.
- Authentication is provided for this application only registered users can access.
- Report generation features is provided using to generate different kind of reports.
- The system provides facilities to track effort spent by employees on a particular task.
- The system also provides facilities to manage different projects and its 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.

II.   MODULES

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

1. Authentication and Security Module
2. Admin(Project Manager) Module
3. Team Lead Module.
4. Employee (developers) Module.
5. Query and feedback Module.
6. Track Effort Module.
7. Reports Module.

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 and individual user can change their default password or old password.

Admin Module

This module consists of the following sub modules:

Registration Module

Here admin register new employees and store their details in database . He also register new projects and store their details in database.

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.

Project (Task) Management Module

Here admin can add a new project and can add , view, modify and delete them according to requirement. Here admin also can assign this projects to team leads.

Team Lead Module

This module has following sub modules:

Project-Module Management Module:

Here team leads create sub modules of an assigned project. And manages this according to requirement.

Task Management Module:

Here team leads manages all the sub tasks of the assigned task to him by creating them and assigning them to the team members of the team of which he is the team lead.

Employee Module:

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.

Query And Feedback Module:

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

Track Effort Module:

In this module tracking of effort is done automatically with respect to a project(assigned task) . An employee (developer) set his effort spends on a assigned task in a time unit. This effort can be tracked by the hierarchy of seniors with respect to a task(project).

Reports Module:

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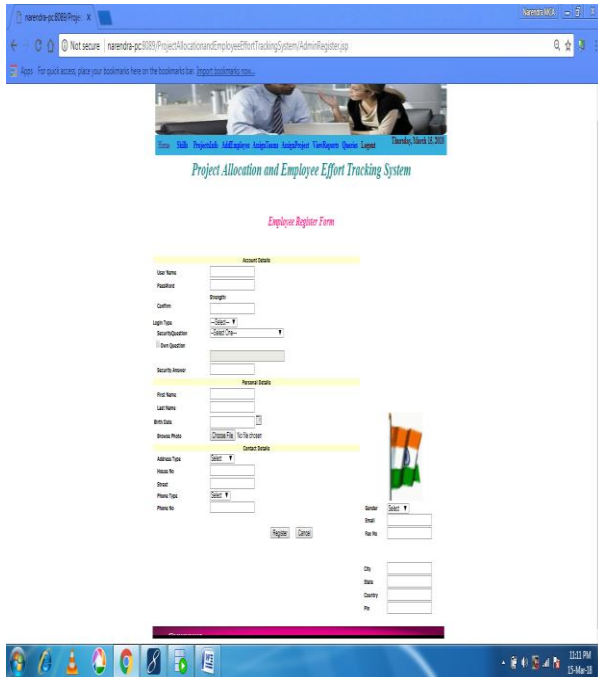
Screen shots:-

AdminLogin: -

Admin HomePage
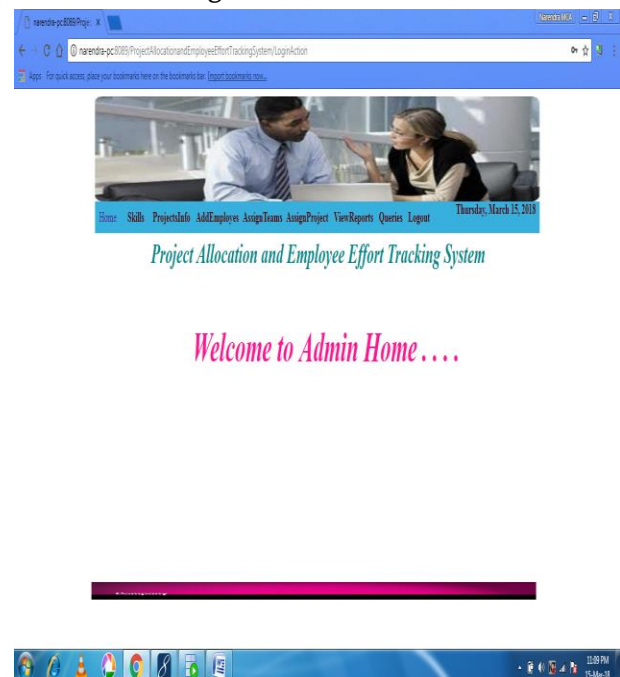
Add Project Details Admin
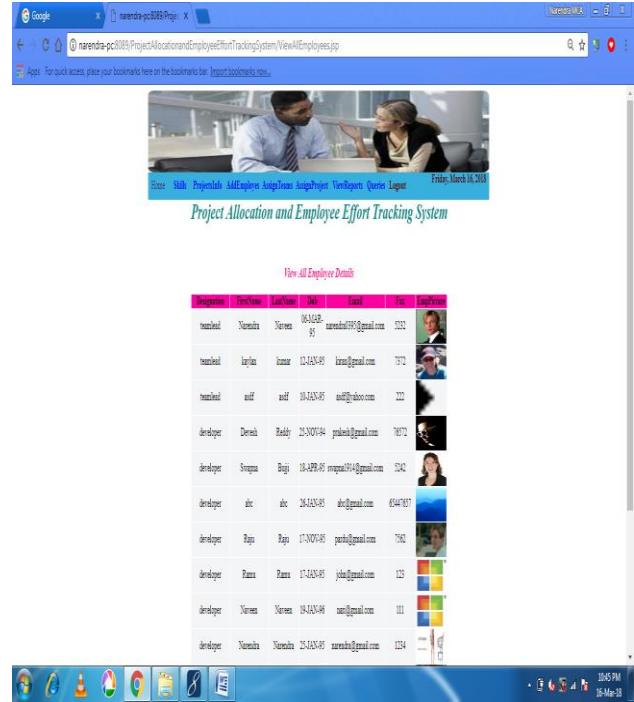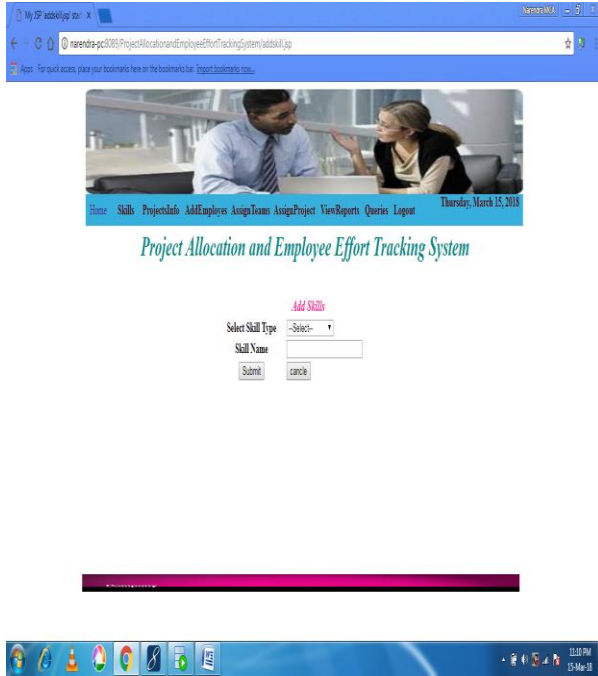
Add Employees
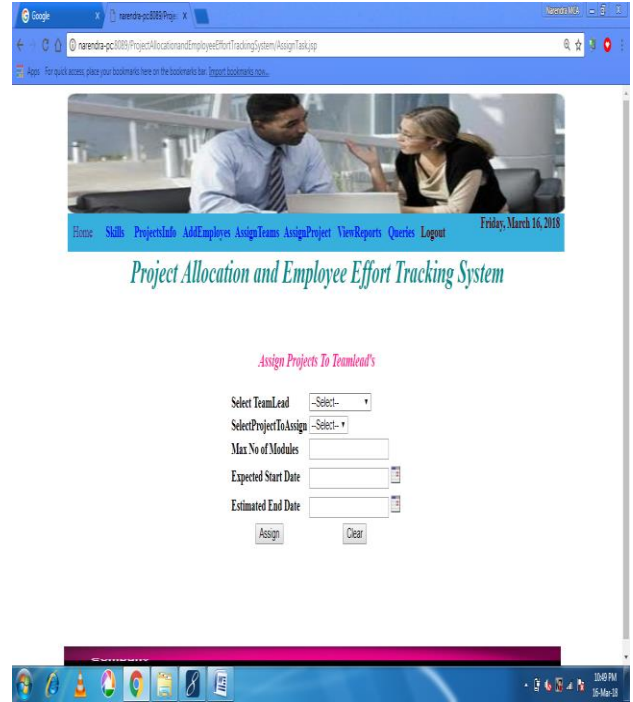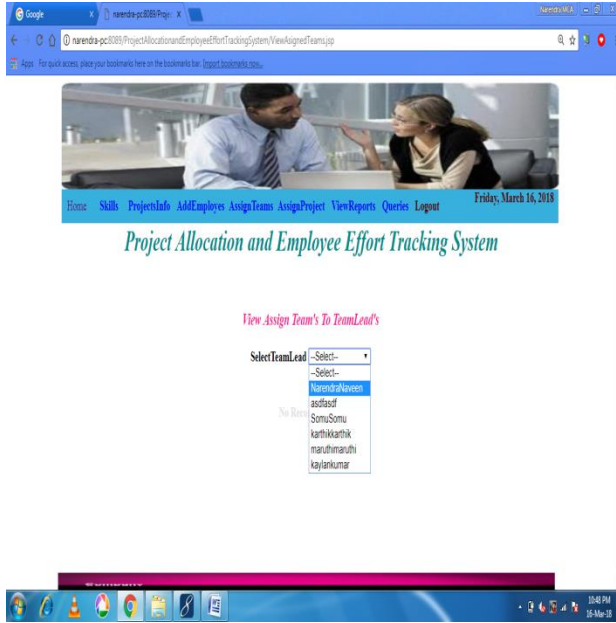

Assign Teams To Team leads
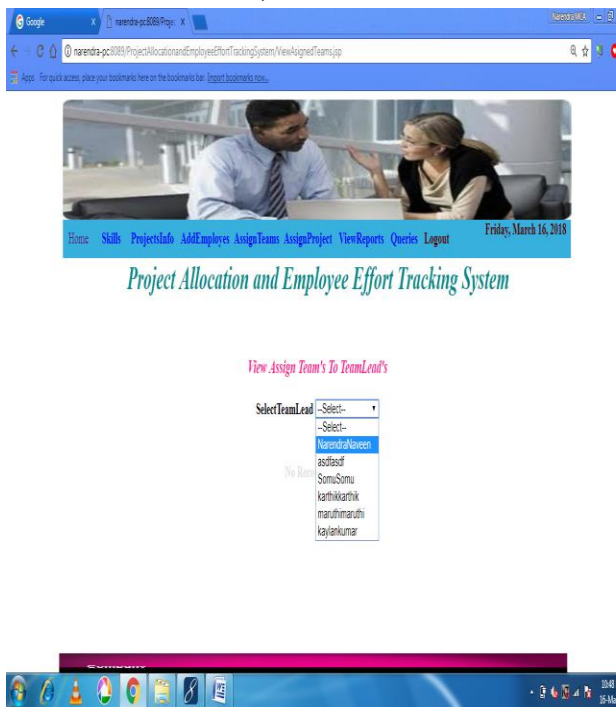

View All Employee Details
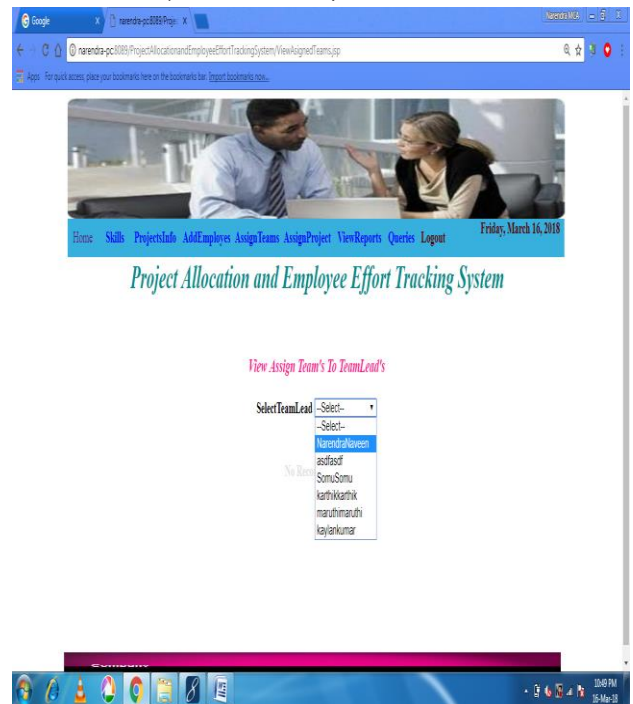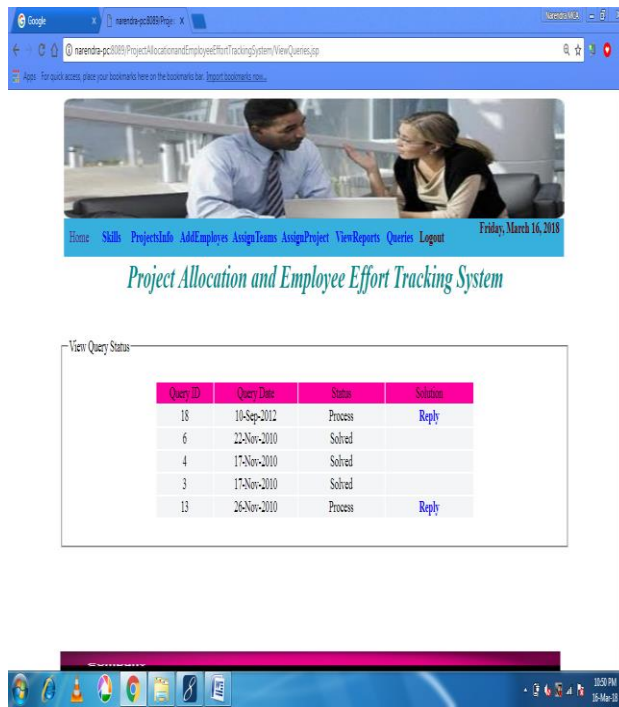

View Team Details By Admin

View Team Details By Admin

View All Project Details By Admin
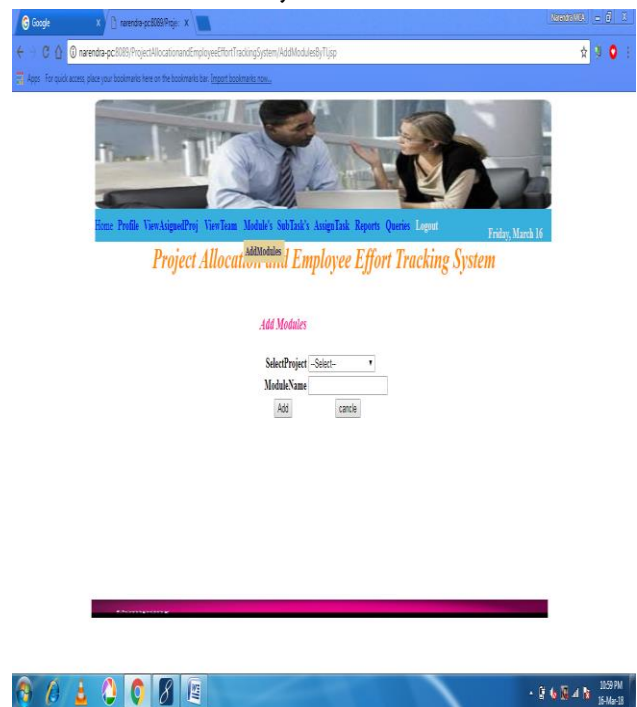

Assign Projects To Team Leads

View Queries By Admin

Team Lead Login

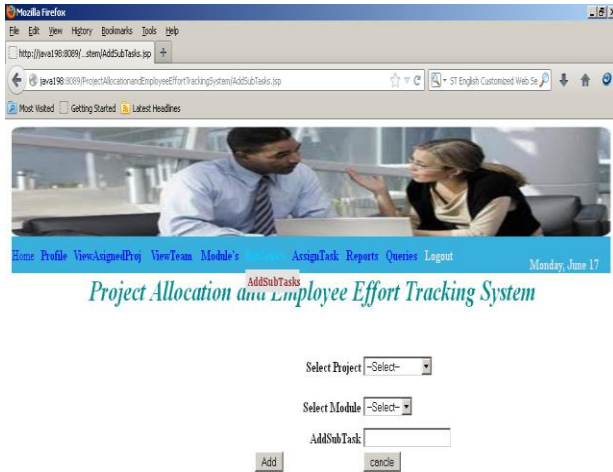Add Module Details By Team Lead

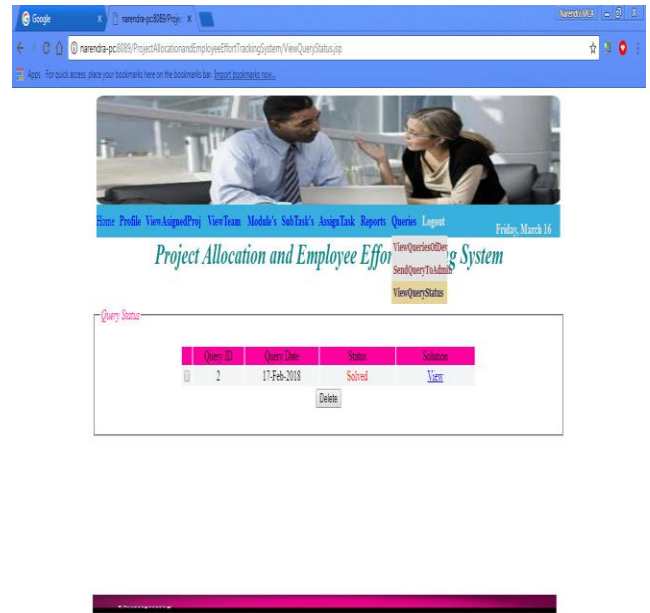
View details

Add Sub Task Details By Team Lead

Send Query To Admin
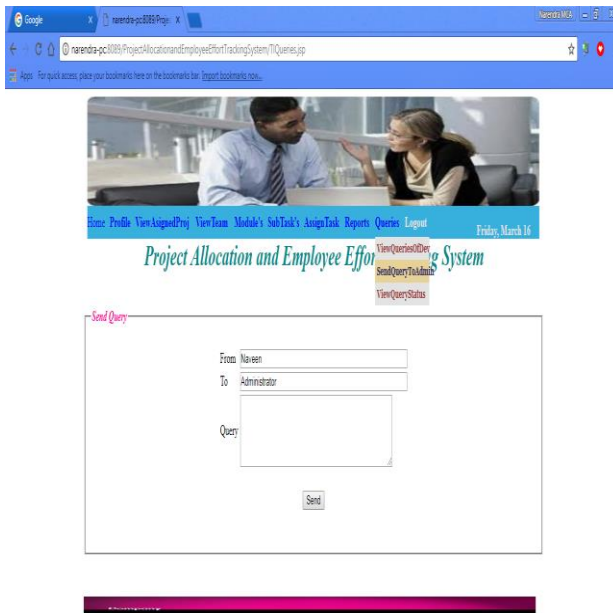
Developer login page

View Query Status
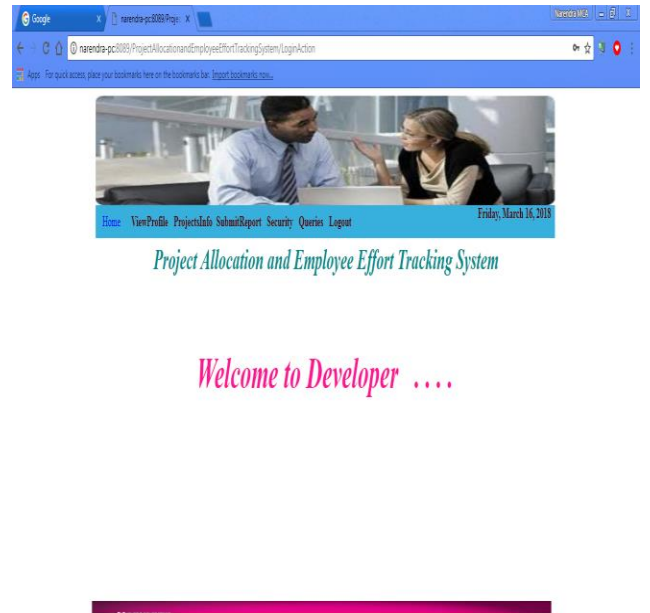
View personal details
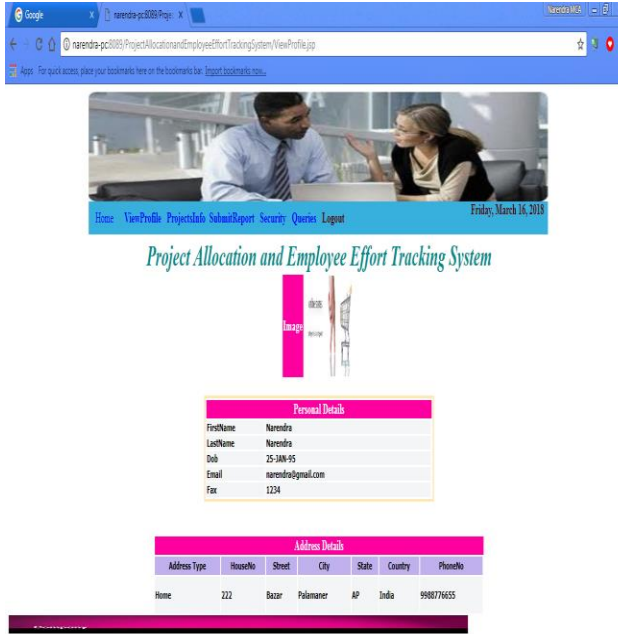
View current working projects details

View Submitted Report
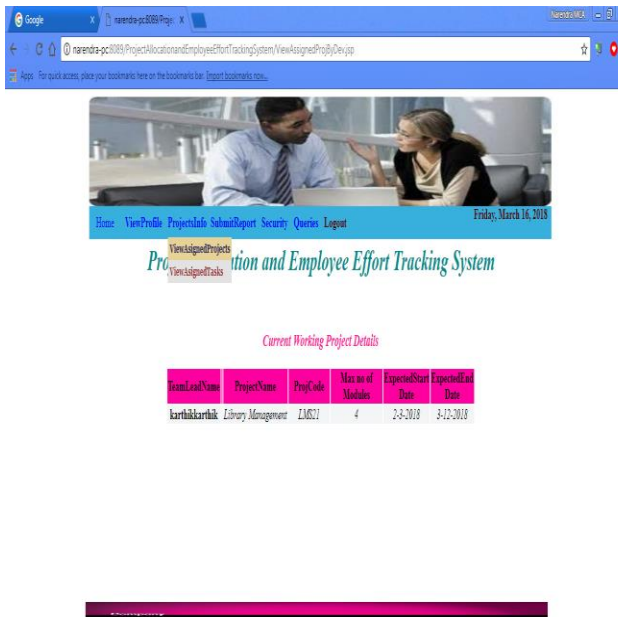
Submit Work Status To Admin Day By Day
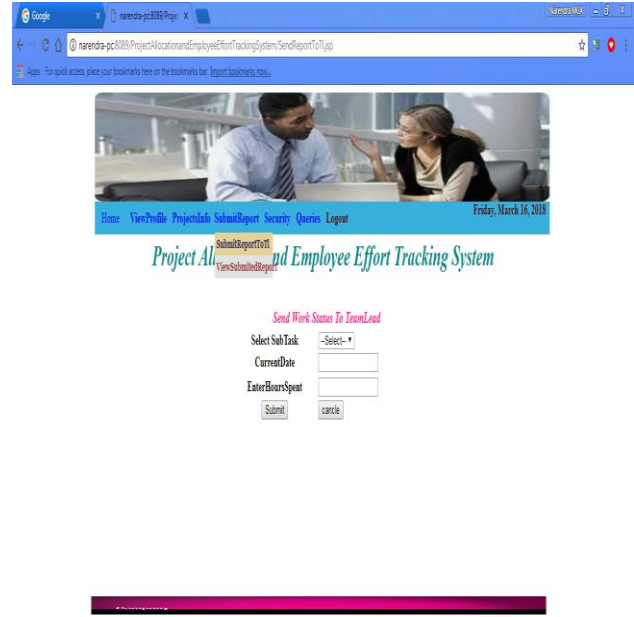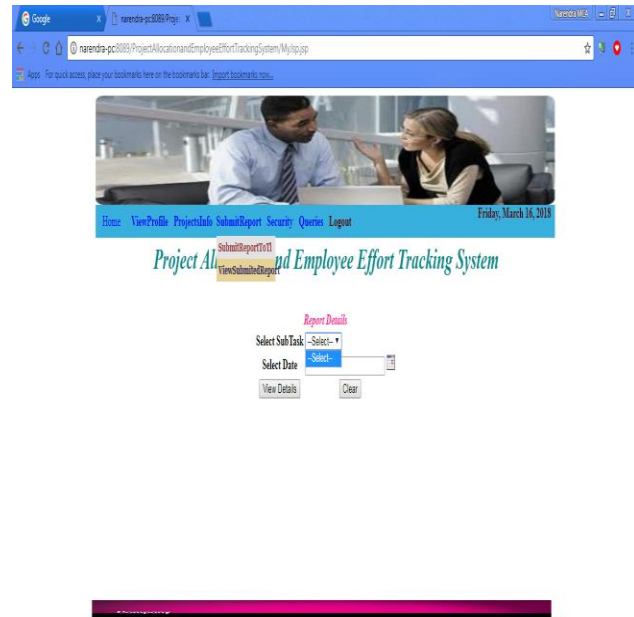
III. CONCLUSION

The effort tracker system was successfully designed and is tested for accuracy and quality. During this project we have accomplished all

the objectives and this project meets the needs of the organization. The developed will be used in searching, retrieving and generating information for the concerned requests. The advantages that are with this proposed system are reduced entry work, Easy retrieval of information, Reduced errors due to human intervention, User friendly screens to enter the data, Portable and flexible for further enhancement ,Web enabled. And Fast finding of information requested.

IV.   BIBILIOGRAPHY

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