PROJECT MANAGEMENT SYSTEM

Mihir Raj[1], Achint Mehta[2]

Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar

(201101057@da-iict.ac.in)[1]

(201101093@da-iict.ac.in)[2]

Supervisor

Prof. Mukesh Tiwari

Off-campus Supervisor

Pritesh Raval

Dev Information Technology Pvt. Ltd.,

14, Aaryans Corporate Park, Near Shilaj Railway Crossing,

Thaltej - Shilaj Road, Thaltej,

Ahmedabad - 380059,

Gujarat. India.

Abstract** – **This document provides the detailed information regarding the "Project Management System" as part of our off-campus B. Tech. Project at Dev Information Technology Pvt. Ltd. undertaken in the 8th semester. In this document, we have explained in brief the tools and technologies we have learnt and worked on during our tenure of four months here.

Keywords** – **.NET, PMS (Project Management System), HR, Manager, Team Leader, Junior

I.   INTRODUCTION

This document is a report of work we have done during our internship period of 4 months. We worked on a project of web portal called Project Management System aka PMS.

II.   PROJECT

A. Project Overview

Project Management System is a system where Projects, Project related tasks, etc. and Employees can be managed. PMS works within four roles which are HR (Admin), Manager, Team Leader and Juniors. When a company gets any project it passes through several phases. HR can manage employees. Manager can manage projects and assign team leaders to the projects. Projects have several modules and these modules have several tasks and these modules and tasks are managed by Team Leader. Team Leader will assign these tasks to Juniors while creating them. Team Leader can update the status of the project from pending to complete. Juniors will work on their assigned tasks and can update daily task's details and notify about the progress of the task to employees.

B. Motivation

The main motivation for undertaking this project was to learn new tools and technologies which were completely new to us.

III. REQUIREMENTS

A. Back end

- C#

B. Front end

- HTML5
- Bootstrap
- CSS3
- jQuery
- Ajax
- Javascript

C. Database

- SQL Server Management Studio

D. Software

- Visual Studio 2013

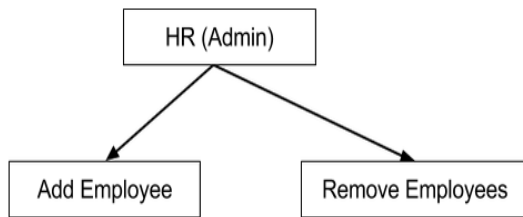## IV. PROJECT DESCRIPTION

A. *Work Flow*

1)
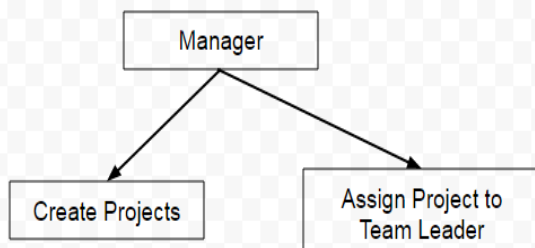

Fig.1 HR can add and remove employees

2)

Fig.2 Manager can create projects and assign a team leader to that.
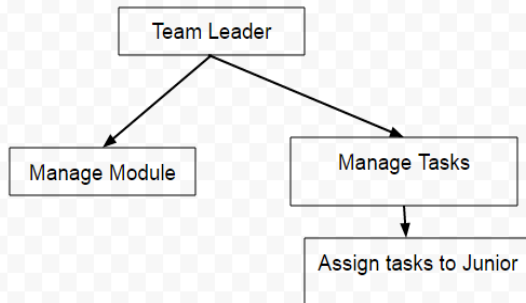
3)

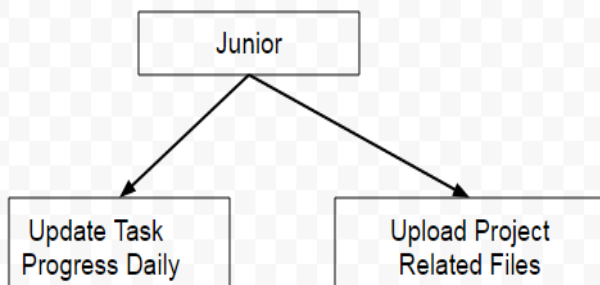Fig.3 Team Leader can manage modules and tasks and assign tasks to juniors

4)

Fig.4 Junior can update daily progress and upload project related files.

B. *Use Cases*

1) ADD EMPLOYEE

Actors	HR
Assumption	HR has employee details
Steps	HR enters the details
Variations	Alert message for invalid input
Output	Successfully added employee

2) REMOVE EMPLOYEE

Actors	HR
Assumption	HR has name and other details
Steps	HR enters the name
Variations	Alert message (employee not found)
Output	Successfully deleted employee

3) ADD PROJECT AND ASSIGN TEAM LEADER

Actors	Manager
Assumption	Manager has Project details
Steps	Manager enters the details and select Team Leader
Variations	Alert message for invalid inputs
Output	Project added successfully and Team Leader Assigned to the project

4) CREATE MODULES

Actors	Team Leader
Assumption	N/A
Steps	Team Leader selects project and enters the module name
Variations	N/A
Output	Module created successfully

5) DELETE MODULE

Actors	Team Leader
Assumption	N/A
Steps	Team Leader selects project, modules for that project appears and Team Leader deletes from that modules
Variations	N/A
Output	Module deleted successfully

6) CREATE TASK

Actors	Team Leader
Assumption	N/A
Steps	Team Leader selects project and modules for that project shows. He/she will enter the task name for that module and select junior to assign task.
Variations	N/A
Output	Task created successfully

7) DELETE TASK

Actors	Team Leader
Assumption	N/A
Steps	Team Leader will select project and module then tasks will be shown. He/she will click on delete button to delete task.
Variations	N/A
Output	Task deleted successfully

8) UPDATE DAILY TASK DETAILS

Actors	Juniors
Assumption	He/she has worked on assigned task
Steps	Junior will select project, select module for that project and select task for that module. He/she will enter the details and/or upload any document.
Variations	N/A
Output	Successfully updated details.

9) LOG IN

Actors	Employee
Assumption	He/she knows email id and password
Steps	He/she will enter the details
Variations	Alert for invalid inputs
Output	Successfully logged in.

10) FORGOT PASSWORD

Actors	Employee
Assumption	He/she knows email id
Steps	He/she will enter the email id
Variations	Alert for invalid input
Output	Password will be sent to the given email id.

11) CHANGE PASSWORD

Actors	Employee
Assumption	He/she knows the password
Steps	He/she will enter the old and new passwords
Variations	Alert for invalid inputs
Output	Password changed successfully.

12) PROFILE UPDATE

Actors	Employee
Assumption	He/she knows his details
Steps	He/she will enter the new details
Variations	Alert for invalid inputs
Output	Profile successfully updated.

C. *Future Scope*

This section includes future scopes for this project which were not been implemented due to time limitations.

1) Password encryption can be implemented for better security purpose.
2) A coding forum can be implemented for the company's employees to resolve their coding issues by discussing it with other employees.
3) A notification about new tasks and projects for juniors and team leaders respectively can be given whenever a team leader assigns a task to junior or manager assigns a team leader to that project.
4) A chat function can be implemented for inter communication.

REFERENCES

[1] http://stackoverflow.com/
[2] https://msdn.microsoft.com/
[3] http://blog.oscarscode.com/dot-net/redirect-to-another-page-with-javascript-in-asp-net/
[4] http://www.asp.net/
[5] http://www.aspsnippets.com/
[6] http://www.c-sharpcorner.com/
[7] http://www.tutorialspoint.com/index.htm
[8] http://www.w3schools.com/
[9] http://www.dotnetperls.com/