

PAYROLL MANAGEMENT SYSTEM REPORT

Presented by:

1. Ponugoti, Karthik (#3)
2. Ainalla, Sruthika (#27)
3. Ramanan, Srihita (#16)
4. Gadamsetty, Ajay Kumar (#10)
5. Manepalli, Satya Sai Akhil (#14)
6. Mutyala, Sai Sindhura (#18)

ABSTRACT

Nowadays, Payroll management is one of the key operational aspects of a business. Any business that has more than one employee must have a payroll system. Paying employees consistently and with no delays not only impacts their morale, but it also reflects the company's financial stability. Moreover, it is a requirement for compliance with federal and state laws. While this is a complex process, having an efficient system helps streamline and centralize the payroll method.

In essence, the payroll management process refers to the administration of an employee's financial records which includes the salaries, wages, bonuses, deductions, and net pay. These records must be maintained and kept by the employer for federal requirements, especially when it pertains to payroll taxes such as Income Tax Withholding Records, Social Security (FICA) Records, and Federal Unemployment Tax (FUTA) Records.

No matter the size of the organization, managing the payroll system is crucial. Those with fewer employees can use a one-write system. New business owners who are not knowledgeable in the process may find the procedure challenging because of the various federal and state laws requirements that must be complied with. Hence, some businesses outsource their payroll services to ensure compliance with all applicable laws. Those who prefer to do it on their own, however, purchase an automated payroll system because it is cost-efficient and time-saving.

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1. Introduction:

The main concept we cover in our system is manage employee detail, manage leave, Generate monthly salary, Extra Allowance and Deduction. Admin is a responsible for operate whole system. Admin has rights to Add new Employee, Each employee has a unique username and password to login in to system. After login in to system all employee can apply for a leave with valid reason. The admin can check leave and he can approve and reject employee leave. According to approve leave the leave deduction will be deducted from salary.

At the time of generate salary we can manually set Travel Allowance, Medical Allowance, Washing Allowance and Calculate HR and DA. Admin can generate and view Employee Report, Leave Report, month wise salary report, year wise salary report, Employee wise salary report. We have use crystal report for generate salary slip of employee.

The Payroll Management System is a web application made in C# using ASP.NET framework with the database. The main aim of the project is to pay the employees perfectly without any delays.

➤ There are five modules and they are as follows,

- Employee Management
- Leave Module
- Allowance and Deduction
- Salary Module
- User Account

- Admin can add new class, add new employee and manage employee detail. Each employee has unique username and password to operate the system.
- Employee can apply for leave after logging in to the system. Admin can respond to the leave by approving or rejecting. Employee can check his leave status if it is approved or rejected.
- At the time of salary generation Admin can set manually HR, DA, Travel, Medical, and Washing Allowance for each employee. Leave will be deducted from salary.
- Admin can generate month wise salary for each employee one by one and generate salary pay slip.
- Create new admin account with username and password for operate system.

SOFTWARE REQUIREMENTS:

- Platform Support: Windows 7 or advanced.
- Language: ASP.NET, HTML, CSS
- Software: Visual Studio 2017, SQL Server Management Studio
- Database: SQL Server

2. Specific features:

There are main two users who operate the system.

- Admin
- Employee

Admin Functionalities

- Add Class
- Add employee
- Manage Leave
- Set HR, DA and Allowance
- Generate Salary
- Generate Pay Slip
- Create New Admin
- Change Password
- Employee Report
- Leave Report

Employee Functionalities

- Apply Leave
- Leave Report
- Salary Report
- Print Salary Slip
- Change Password

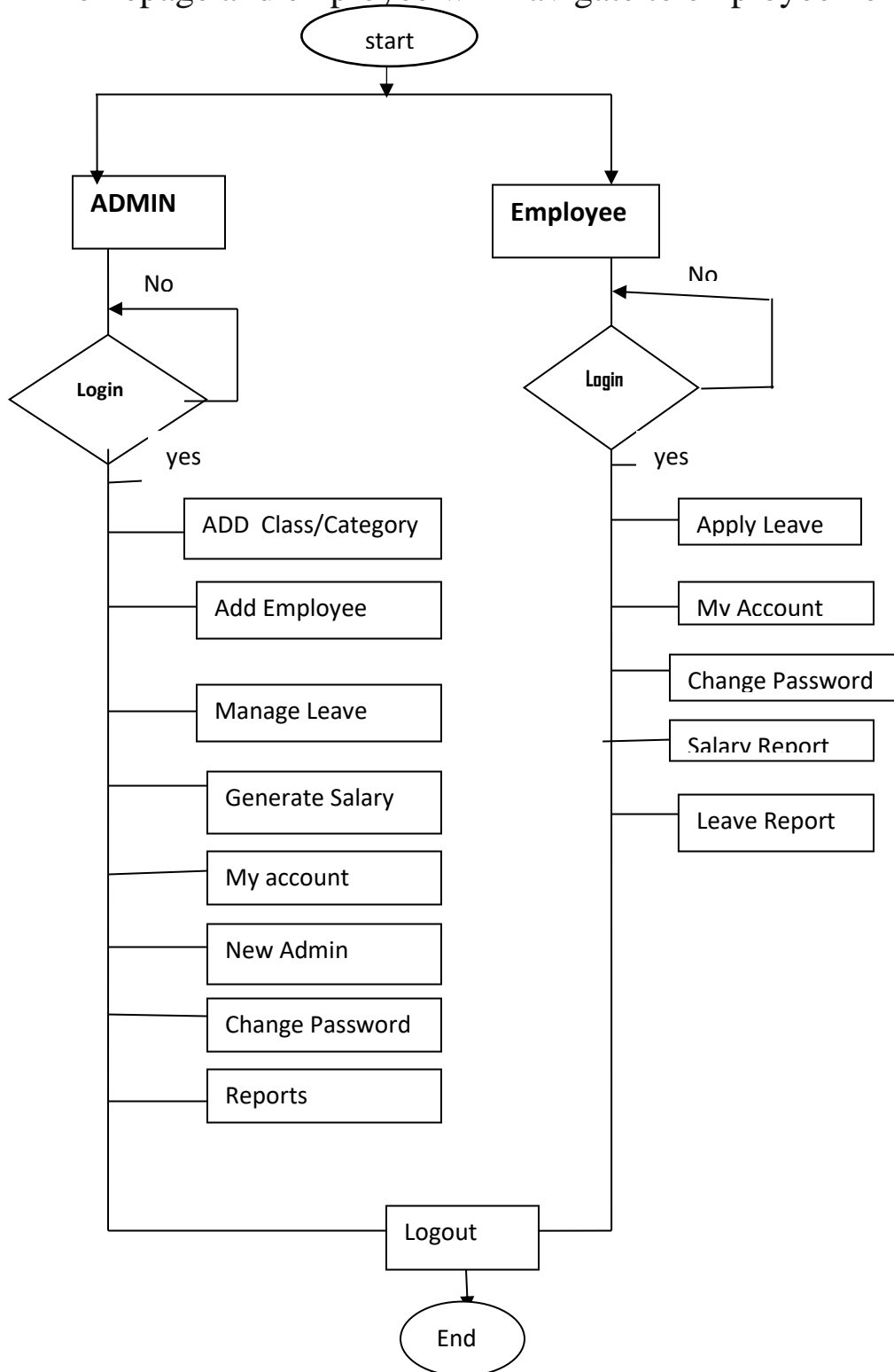
3. Lessons Learned:

While implementing the project we learned a lot of things

1. How to gather requirements for the system to implement?
2. How to design, establish and publish a database in the web.
3. Creating and integrating database.
4. Storing data in the database and usage of sessions.
5. Dealing with database failures and error handling.
6. Handling issues of data inconsistency and memory allocation.
7. Acquired knowledge on event handling and code optimization techniques while implementing in code behind.

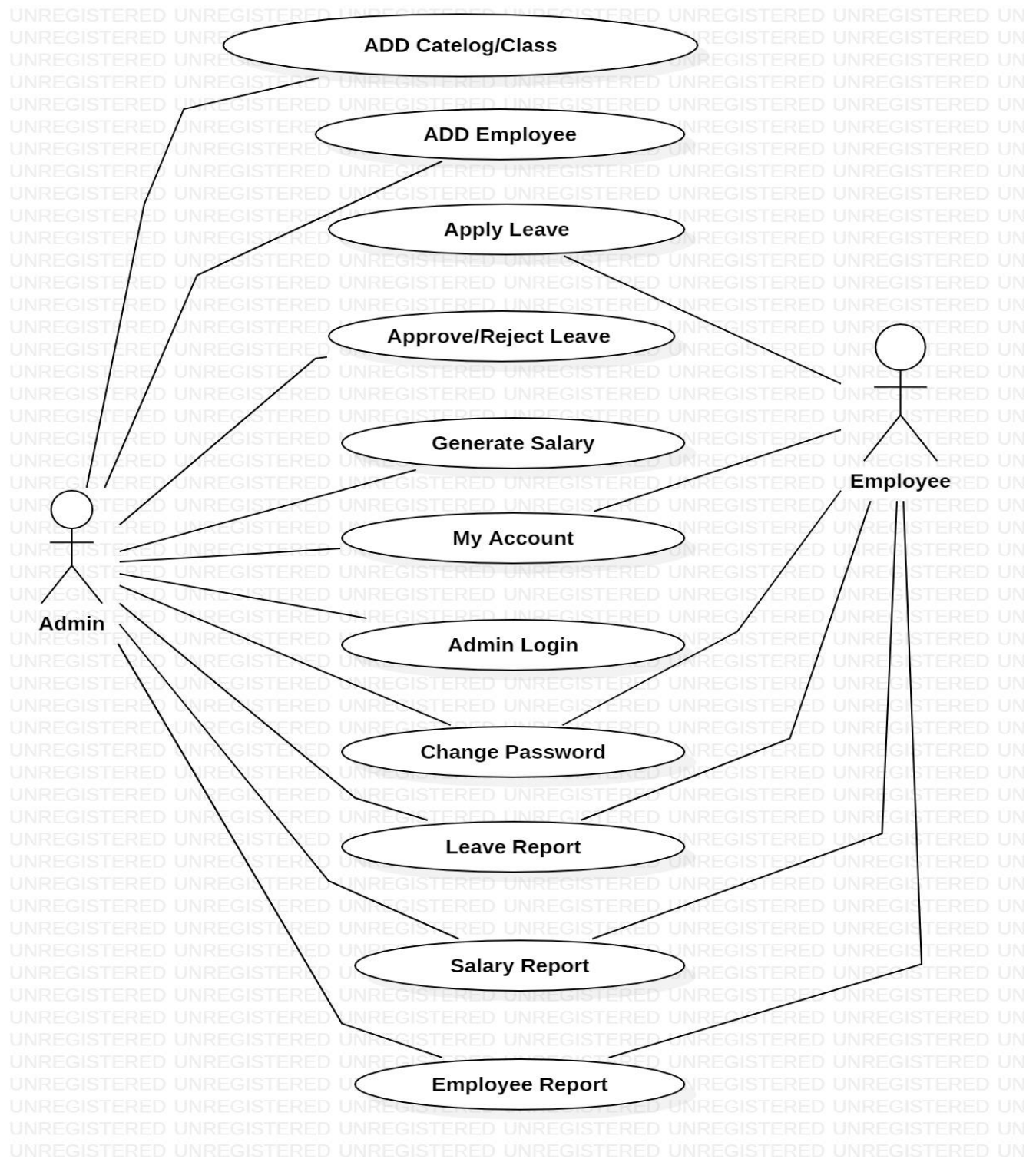
4. Flow Chart

In this application initially login page appears. The admin will select the admin radio button and the employee will select employee radio button, both of them enter their credentials to login. After login, for admin will navigate to admin homepage and employee will navigate to employee homepage.

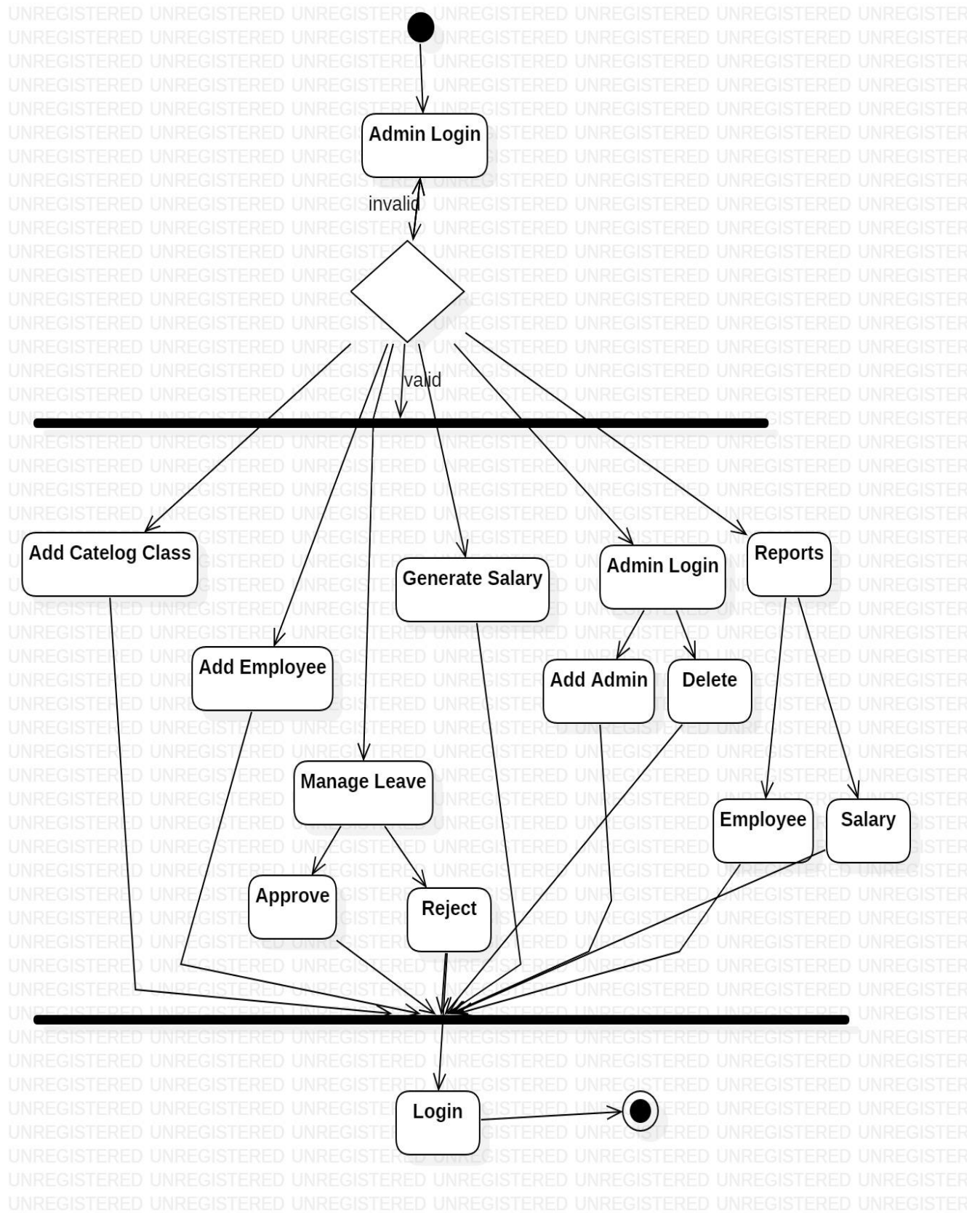


5. UML Diagrams & ER Diagram:

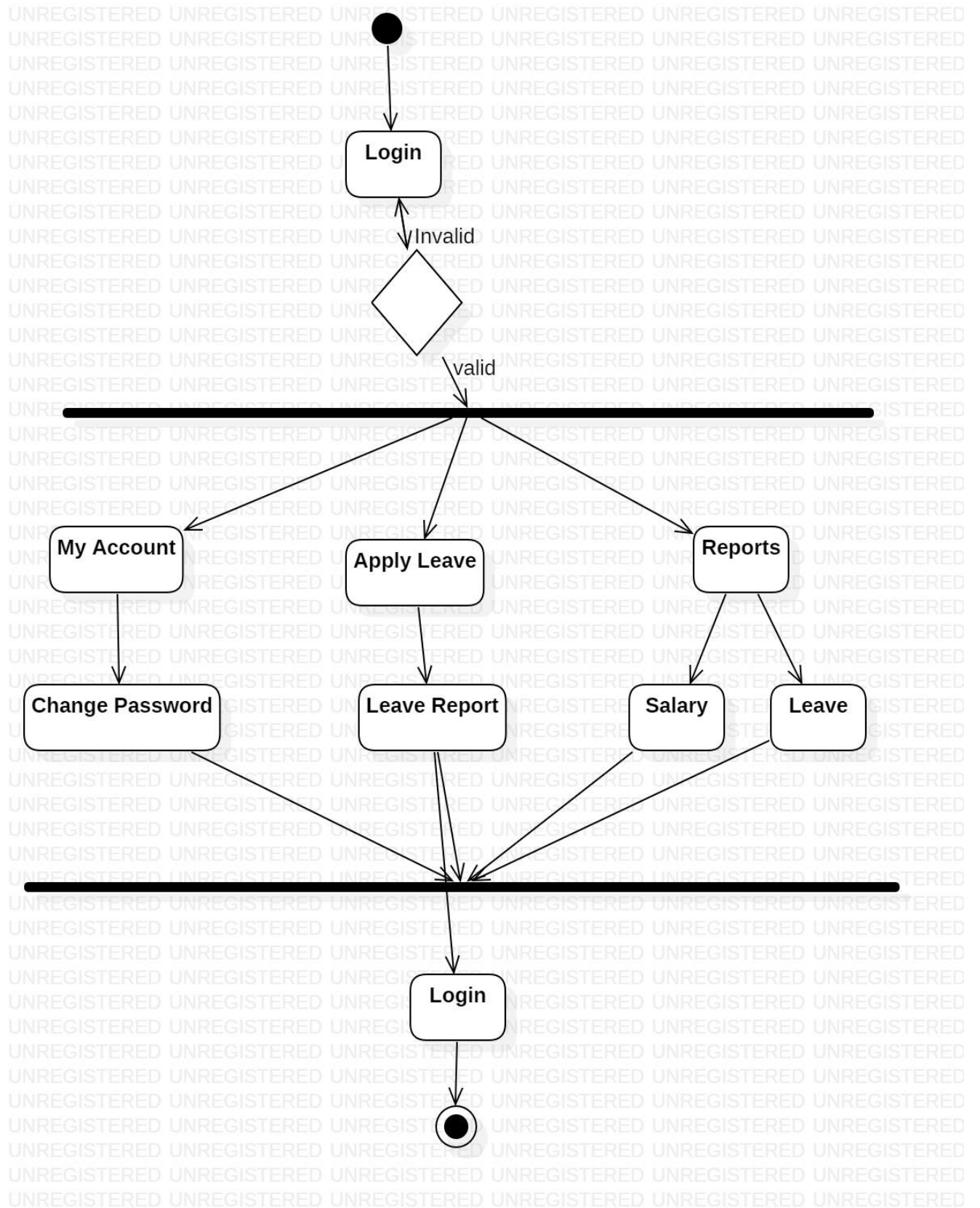
Use-case Diagram:



Admin Activity Diagram:

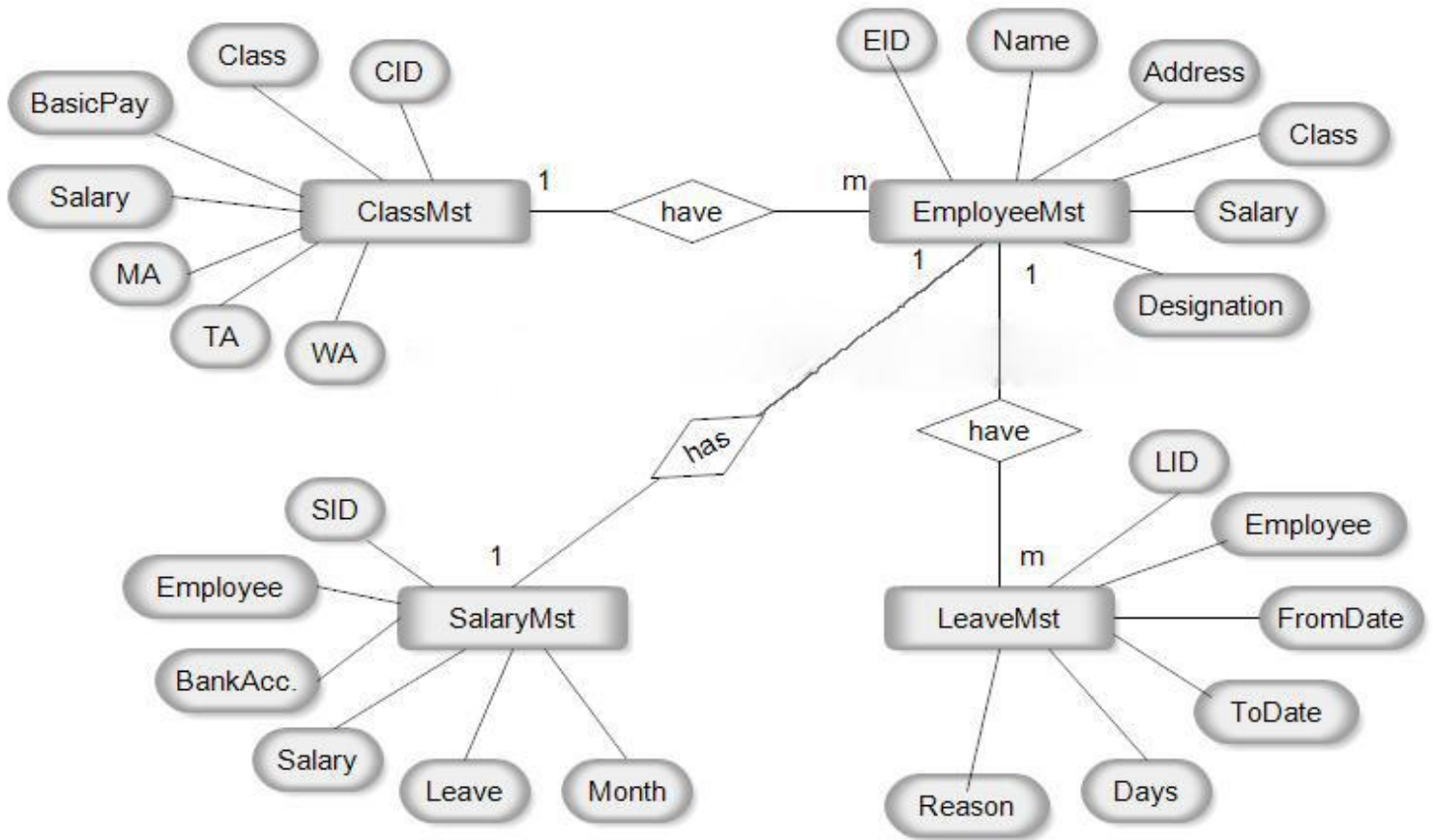


Employee Activity Diagram:

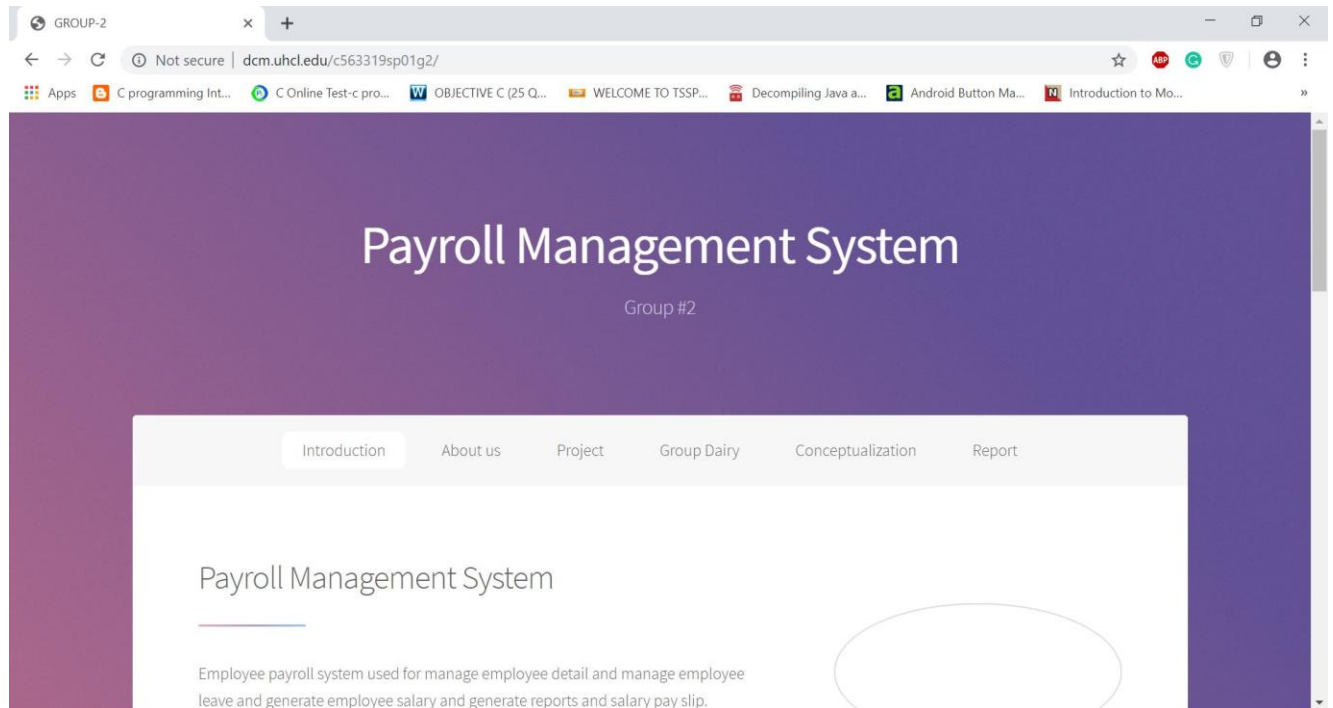


ER Diagram:

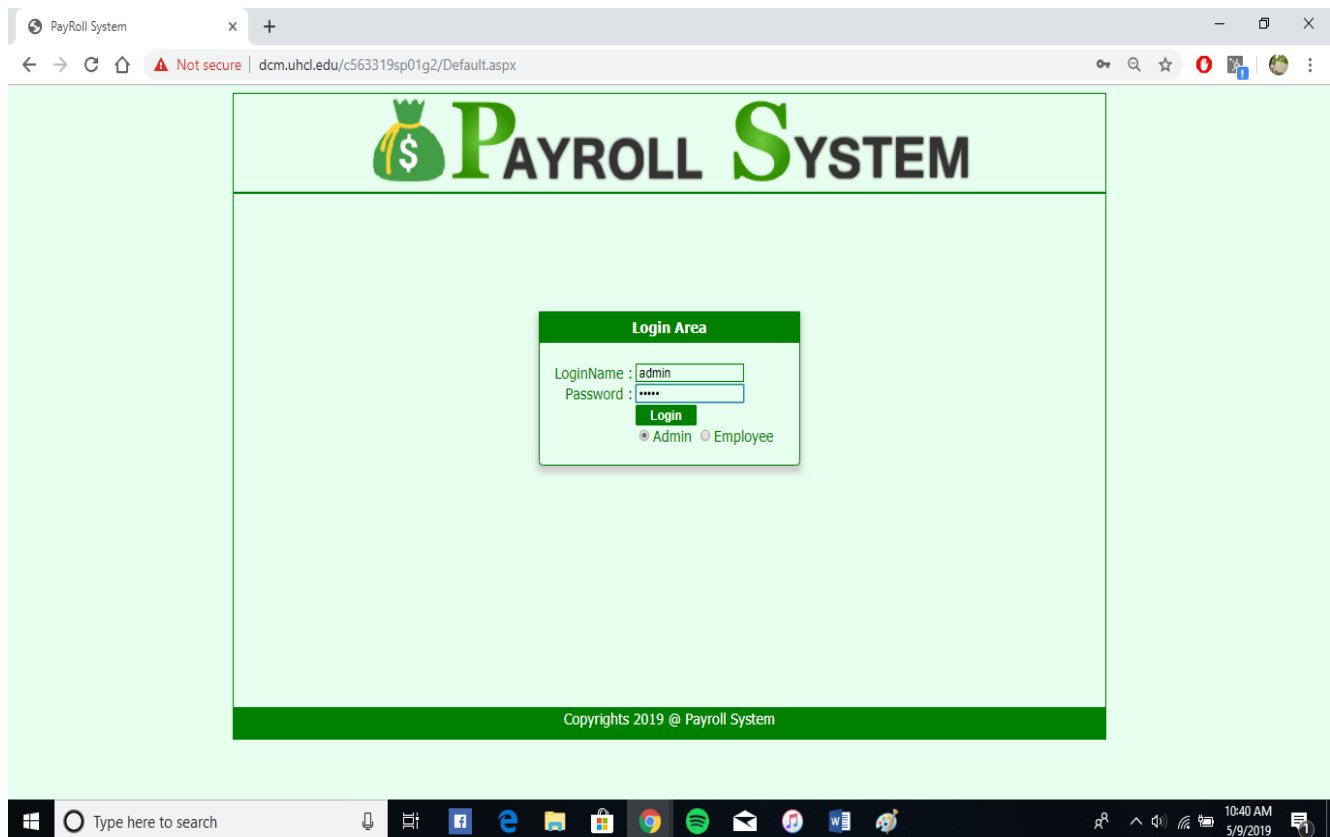
E-R Diagram Payroll System



6. Project Description:



Group #2 welcome page



Login page

Browser address bar: dcm.uhcl.edu/c563319sp01g2/Main.aspx

PAYROLL SYSTEM

HOME Welcome to payroll system

ADD CLASS

ADD Employee

Employee Report

Leave

Salary

Salary Report

Year wise Report

Add Admin

Change Password

LogOut

<div style="border: 1px solid black; padding: 5px; background-color: #2e8b57; color: white;">Employee</div> <div style="border: 1px solid black; padding: 10px; background-color: #2e8b57; color: white; font-size: 24px; font-weight: bold;">1</div>	<div style="border: 1px solid black; padding: 5px; background-color: #2e8b57; color: white;">Active</div> <div style="border: 1px solid black; padding: 10px; background-color: #2e8b57; color: white; font-size: 24px; font-weight: bold;">1</div>	<div style="border: 1px solid black; padding: 5px; background-color: #2e8b57; color: white;">Deactive</div> <div style="border: 1px solid black; padding: 10px; background-color: #2e8b57; color: white; font-size: 24px; font-weight: bold;">0</div>
<div style="border: 1px solid black; padding: 5px; background-color: #2e8b57; color: white;">New Leave</div> <div style="border: 1px solid black; padding: 10px; background-color: #2e8b57; color: white; font-size: 24px; font-weight: bold;">1</div>	<div style="border: 1px solid black; padding: 5px; background-color: #2e8b57; color: white;">Approved</div> <div style="border: 1px solid black; padding: 10px; background-color: #2e8b57; color: white; font-size: 24px; font-weight: bold;">0</div>	<div style="border: 1px solid black; padding: 5px; background-color: #2e8b57; color: white;">Rejected</div> <div style="border: 1px solid black; padding: 10px; background-color: #2e8b57; color: white; font-size: 24px; font-weight: bold;">0</div>

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Admin homepage

Browser address bar: dcm.uhcl.edu/c563319sp01g2/AddClass.aspx

PAYROLL SYSTEM

HOME ADD New Class

ADD CLASS

ADD Employee

Employee Report

Leave

Salary

Salary Report

Year wise Report

Add Admin

Change Password

LogOut

Class Name :

Basic Pay :

Salary :

TravelAllowance :

MedicalAllowance :

WashingAllowance :

Class	Basic Pay	Salary	T_ALL	M_ALL	W_ALL
Delete DIS	2000	5000	100	500	200

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Adding new class in Admin page

Browser: dcm.uhcl.edu/c563319sp01g2/... | Not secure | dcm.uhcl.edu/c563319sp01g2/AddEmployee.aspx

PAYROLL SYSTEM

HOME

- ADD CLASS
- ADD Employee
- Employee Report
- Leave
- Salary
- Salary Report
- Year wise Report
- Add Admin
- Change Password
- LogOut

ADD NEW EMPLOYEE

Name : <input type="text"/>	Class : <input type="text" value="SELECT"/>
Address : <input type="text"/>	Basic Pay : <input type="text"/>
City : <input type="text"/>	Salary : <input type="text"/>
Pincode : <input type="text"/>	Bank Account : <input type="text"/>
Mobile : <input type="text"/>	Email : <input type="text"/>
Degree : <input type="text" value="SELECT"/>	Password : <input type="text"/>
Designation : <input type="text" value="SELECT"/>	Confirm-Pass : <input type="text"/>
Branch : <input type="text" value="SELECT"/>	<input type="button" value="ADD Employee"/>

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Windows Taskbar: Type here to search | 10:42 AM 5/9/2019

Adding New employee in Admin page

Browser: dcm.uhcl.edu/c563319sp01g2/Er... | Not secure | dcm.uhcl.edu/c563319sp01g2/EmpReport.aspx

PAYROLL SYSTEM

HOME

- ADD CLASS
- ADD Employee
- Employee Report
- Leave
- Salary
- Salary Report
- Year wise Report
- Add Admin
- Change Password
- LogOut

Employee Report

Select Branch :

Select Employee :

Employee Detail

Name : srihita	Class : DIS
Address : 300 Cyberonics Blvd, 2012	Basic Pay : 2000
City : Houston	Salary : 5000
Pincode : 77058	Bank Account : 3267492
Mobile : 7892531643	Email : srihitaramanan@uhcl.edu
Degree : Graduate	Password : srihita
Designation : Professor	Status : Active
Branch : COMPUTER	

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Windows Taskbar: Type here to search | 10:47 AM 5/9/2019

Employee Report page in Admin

Browser: dcm.uhcl.edu/c563319sp01g2/Le... | Not secure | dcm.uhcl.edu/c563319sp01g2/LeaveForm.aspx

PAYROLL SYSTEM

HOME
Manage Leave

ADD CLASS

ADD Employee

Employee Report

Leave

Salary

Salary Report

Year wise Report

Add Admin

Change Password

LogOut

New Leave Approve Leave Cancel Leave

New Leave Report

Select Employee : Select

From Date	To Date	Days	Reason	Approve	Cancel
11 May 2019	13 May 2019	3		Approve	Cancel

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Managing leave in Admin page

Browser: dcm.uhcl.edu/c563319sp01g2/A... | Not secure | dcm.uhcl.edu/c563319sp01g2/Addadmin.aspx

PAYROLL SYSTEM

HOME
ADD New Admin Login

ADD CLASS

ADD Employee

Employee Report

Leave

Salary

Salary Report

Year wise Report

Add Admin

Change Password

LogOut

New Username :

Password :

Confirm-Pass :

ADD Admin

	Login Name	Password
Delete	karthik	*****

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Adding a new Admin

Browser address bar: dcm.uhcl.edu/c563319sp01g2/Changepass.aspx

PAYROLL SYSTEM

HOME Change Password Form

ADD CLASS

ADD Employee

Employee Report

Leave

Salary

Salary Report

Year wise Report

Add Admin

Change Password

LogOut

Current Password :

New Password :

Confirm-Pass :

Change Password

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Windows taskbar: Type here to search, 10:46 AM 5/9/2019

Option for changing password

Browser address bar: dcm.uhcl.edu/c563319sp01g2/Emp/MyAccount.aspx

PAYROLL SYSTEM

Welcome to system My Account Summary

MY Account


Leave

Leave Report

Salary Report

Change Password

LogOut



Total Leave	Approved Leave	Canceled Leave
3	0	0
Last Salary	Allowance	Deduction
0	0	0

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Windows taskbar: Type here to search, 2:22 PM 5/9/2019

Employee Homepage

Browser: dcm.uhd.edu/c563319sp01g2/Emp/Leave.aspx

PAYROLL SYSTEM

Welcome to system
Leave Application Form

MY Account


Leave

Leave Report

Salary Report

Change Password

LogOut



From Date :

May 2019						
Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Noof Days :

Reason :

[Leave Apply](#)

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Employee Leave application form

Browser: dcm.uhd.edu/c563319sp01g2/Emp/LeaveReport.aspx

PAYROLL SYSTEM

Welcome to system
Leave Report

MY Account


Leave

Leave Report

Salary Report

Change Password

LogOut



Pending Leave
Aprove Leave
Cancel Leave

1 Record Found

From Date	To Date	Days	Reason	Status
11 May 2019	13 May 2019	3		New

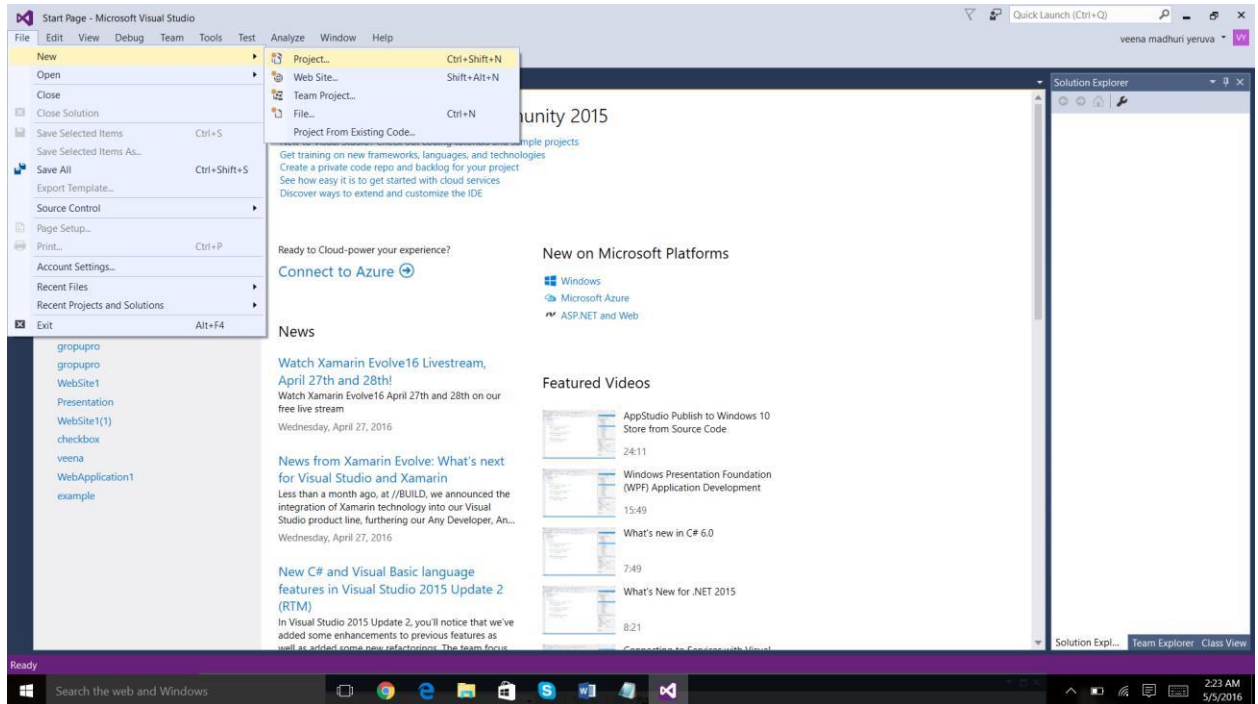
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Employee Leave report

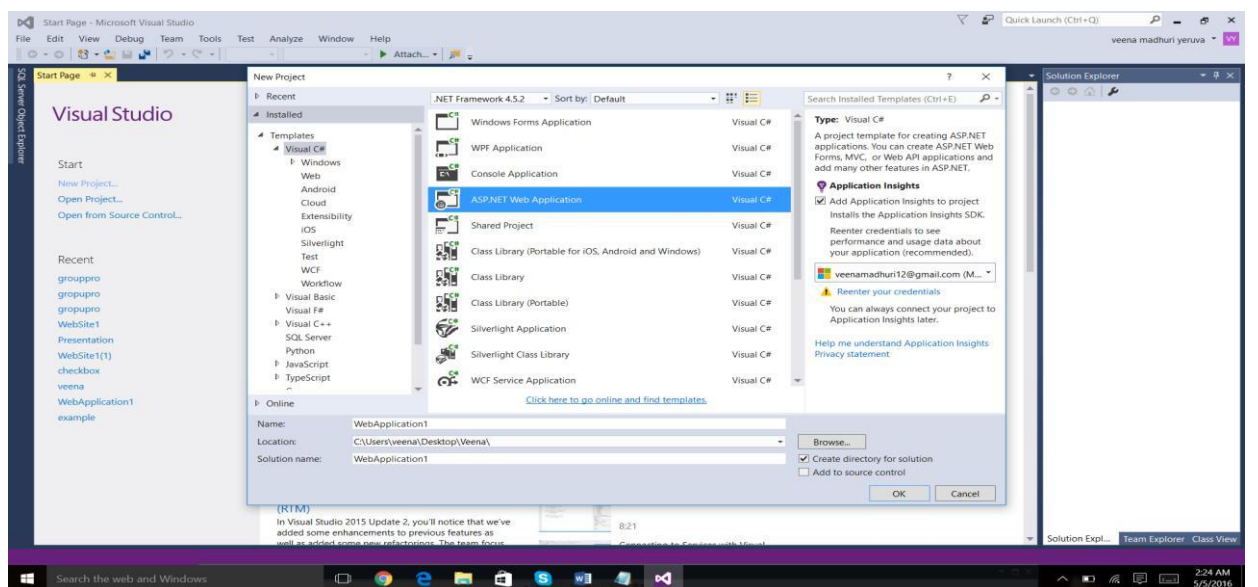
7. Steps for Development:

To develop an application using .NET framework we must install visual studio. This may be any version like visual studio 2013 or higher.

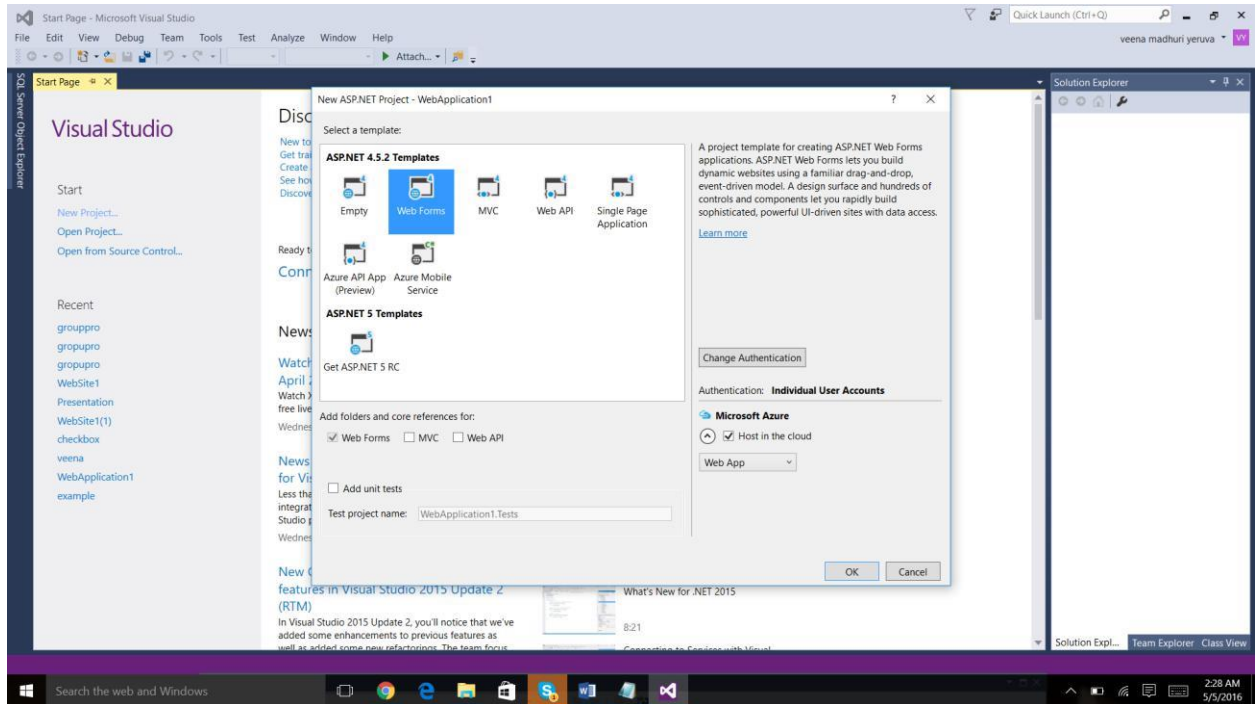
1. First, we have to go to **start -> visual studio 2017 -> File New project.**



2. Then, a menu will appear. Select visual c# and ASP.NET web application.



3. Again, click on web forms and click on 'ok'.



4. Then write you code in that project.

8. Steps for deploying the project:

To deploy the web application, all the configuration about the web server should be configured using the publish menu. Select the project solution name, right click and select publish menu item. The publish web dialog will then open. Configure the web server name as DCM Server and go to the connection tab to input the publish method as FTP, Server address pointing to the given web DCM server at uhcl.edu, give user login details and finally give the destination URL to open after publishing the web application. The user can click on validate connection button to test if the connection is successful with the given configuration settings.

After all the settings are given a click on the publish button to publish the web application. If the hosting is successful, then it opens the website URL and displays the contents designed using the ASP.NET. If there are any issues with the coding or hosting, then the URL returns an error code. Most of the issues can be easily found using the error code. The developer can also verify if the hosting is successful by going to the FTP path and check manually if it contains all the necessary files under pages folder.

9. Testing:

The username and password for testing is as follows:

Admin:

Username: karthik

Password: karthik

Employee:

Username: srihitaramanan@uhcl.edu

Password: srihita

10. Group Diary:

DATE	WORK DONE
01/31/2019	Deciding the idea for the project
02/07/2019	Requirements gathering for the project
02/14/2019	Finish the implementation of Homepage. Hosting the homepage in the server.
02/21/2019	User Requirements Gathering System Requirements Network requirements
02/28/2019	Completed the define phase document and submitted. Discussion regarding designing the database and usage of it.
03/07/2019	Decided on role of each project member.
03/21/2019	Further discussed about the implementation of the project
03/28/2019	Completed design phase document and submitted. Project template enforcement. Error correction of the template.
04/04/2019	Developing Employee management module Developing Leave module
04/11/2019	Developing Allowance and Deduction Module Developing Salary module Developing User account
04/18/2019	Database access and design Finalized all implementations
04/25/2019	Test and execute the application and Check for any errors or changes required Completed final changes.
05/02/2019	Deployed all the changes made and hosted the project to the server.