# Employee Timesheet Management System

**Tech Stack:**

* Front-end: Angular 8
* Server: Asp.Net Core Web API
* Database: SQL Server
* Entity Framework Core

**Overview:**

There are three roles involved in the system.

1. Employee
2. Administrator

**Employee Functionalities:**

1. Login to the system by entering username and password
2. Forgot password functionality
3. Employee information page that displays the personal information and project allocations. In addition, the page should display the links for Submit a Time Sheet, Delete existing Time Sheet, List Time Sheet entries per day/week/month.
4. Submit a time sheet. The form should accept details such as date, project selection, detailed description of tasks and hours spent for the day against the task. Perform validations while submitting form data.
5. Delete a previously submitted time sheet entry if it is not approved/rejected by admin.
6. Edit profile page that allows the employee to update his/her personal information. This page should have a link that redirects to change password page.
7. Change password functionality.
8. Logout from the system.

**Administrator Functionalities:**

1. Login to the system by entering username and password
2. Admin information page should display the links for Employee Information, Update Details and Report Generation.
3. Add, Edit, List and Delete projects. Also they can assign employees to projects.
4. A page to list the time sheet entries entered by employees. It can be filtered based on day/week/month and by employees.
5. Approve the timesheet entries of other employees.
6. Update details page to list, add, edit, delete employees, add an employee designation and add a location.
7. Logout from the system.

**Evaluation Factors:**

1. Demo and Presentation
2. Design document/ UML
3. Database design
4. Coding Best Practices
5. Unit Testing with Mocking
6. Design Patterns
   1. Repository
   2. Dependency Injection