

WritUp EMS:

Objective:

You are working as a web developer and your company has decided to launch a new app called Event Management. The administration team of the organization can view and add their resources such as employees and keep their data saved for future references.

The backend development has been outsourced as APIs and the frontend will be developed in-house by using Angular as a client-side framework. During the sprint planning, you agree to lead this project and develop an app that will let the admin find employees using APIs outsourced by backend engineers.

The tasks that need to be performed by you are:

Build the application using Angular

Create a temporary database server for CRUD operation using a JSON local server

Validate all employee management forms using Form Validation

Render the application as a Single Page Application

Step 1: Set up the Angular project

Install Angular CLI globally and create a new Angular project.

Navigate into the project folder.

Step 2: Create the Employee Service

Generate a service to handle HTTP requests to the JSON server API.

Implement functions to get, add, update, and delete employee data.

Step 3: Create the Employee Components

Generate components for login, employee list, and employee details.

Implement the logic and templates for each component.

Handle admin login and password change functionality in the login component.

Display a master list of employee details in the employee list component.

Implement CRUD operations (Create, Read, Update, Delete) for employee details in the employee list and details components.

Step 4: Implement Form Validation

Use Angular's Reactive Forms module to validate the login and employee details forms.

Apply appropriate validators to form controls for input validation.

Step 5: Render the Application as a Single Page Application

Configure routing to define routes for different components.

Use Angular router directives (routerLink, router-outlet) for navigation between components without page reloads.

Step 6: Styling and UI Enhancement

Use Bootstrap or a CSS framework of your choice to enhance the UI.

Apply CSS styles to components and elements to match the desired design.

Step 7: Testing and Deployment

Test the application to ensure all functionality and validations work as expected.

Deploy the application to a hosting provider or web server for production use.

Short Description:

This project aims to build an Angular app for employee management. The app allows an admin user to view and manage employee data. The backend development has been outsourced, and the frontend will be developed in Angular. The app includes a login page where the admin can change the password after logging in. The admin can view a master list of employee details and perform CRUD operations to create, remove, update, or delete employee details. The app uses a JSON server for temporary database operations. Form validation is implemented to ensure data integrity. The app is rendered as a Single Page Application (SPA) for smooth user experience.

Tools Required:

Angular

Bootstrap

JSON

NPM

NODE JS

Github Link:

<https://github.com/Aryan9605garg/AryanPracticeRepo>