

FE Tech stack

- **Angular 12**
- **HTML 5**
- **CSS3, SASS, SCSS**
- **Angular Material**

What is Angular :

<https://angular.io/guide/what-is-angular>

Angular Setup Prerequisites

- **Node version - 14.15.x or later minor -**
<https://nodejs.org/download/release/v14.15.5/>
- **For windows download .msi file**
- **Some text editors or IDE : Visual Studio Code, Sublime Text, Atom etc...**
 - o **<https://code.visualstudio.com/download>**
 - o **<https://www.sublimetext.com/3>**
 - o **<https://atom.io/>**

Tutorial for Angular 12:

- **<https://angular.io/docs/>**
- **<https://angular.io/tutorial>**
- **<https://www.tutorialspoint.com/angular8/index.htm>**
- **<https://www.tektutorialshub.com/angular-tutorial/>**

Tutorial for HTML 5

- **<https://www.tutorialspoint.com/html5/index.htm>**
- **<https://www.w3schools.com/html/>**

Tutorial for CSS3 / SASS / SCSS

- **https://www.tutorialspoint.com/css/css3_tutorial.htm**
- **<https://www.w3schools.com/sass/>**
- **<https://www.tutorialspoint.com/sass/index.htm>**

POC Use case

An Angular web application for a college with following pages :

Login Page

- **Login screen with a user name field (type text), a password field (type password) and a login button. Login button should be enabled only if the user enters a user name and a password**
- **On Login button, user should be navigated to a Dashboard**

Dashboard

- **A table for listing student details (Use Angular Material Table)**
- **First Name**
- **Last Name**
- **Class**
- **Address**
- **Department (ECE, CS, IT, Mechanical)**
- **There should be a filter option for the table with a text search for searching a student with First name / Last name and a drop down for filtering with department. The dropdown will have all the departments as dropdown values**
- **The table should have an option to sort with First Name and Last Name students with alphabetical order.**

Departments

- **It should display all the departments with the following details**
- **Department name**
- **Department HOD**
- **Number of students in the department**
- **The departments should be shown as card with the department details**

Side Menu

- **There should be a side menu which will be shown in all pages other than the login with the following menu items**
- **Dashboard - When user clicks on the Dashboard, it should navigate to the dashboard page**
- **Departments - When user clicks on Departments, It should navigate to department page**
- **Logout - When user clicks on Logout, the user will navigate to login page.**

Header

- **Application name along with the Page name should be shown in the header.**

