

Angular and Node JS Assessment

Duration: 12 hrs.

Problem Statement:

This hospital management system consists of two views one being hospital view and other department view. There is a table showing the list of hospitals in hospital view. Above the table there is a button for sorting the table according to the hospital name. On clicking view link present beside the hospital name in that row the view changes to table consisting of departments present in that hospital. Similar to hospital list there is a button for sorting the department list based on department name present on top of department table On clicking the back button present in the department view the view should be switched back to hospital view. The navigation should be achieved by using the **router module** with the hospital view as the default route –

1. Create the following Components and Services.
 - a. HospitalView Component
 - b. DepartmentView Component.
 - c. Hospital Service.
2. Create two JSON files in node js project -
 - a. Hospitals = [{ hospitalname: 'KIMS', contactnumber: '9632587410' }, { hospitalname: 'CSI Mission Hospital', contactnumber: '9685321470' }];
 - b. Departments = [{ departmentname: 'nephrology', head: 'Dr. A P Kulashekhar', contactnumber: '9876543210', hospitalname: 'KIMS' }, { departmentname: 'neurology', head: 'Dr.B Raj Kumar', contactnumber: '9876543210', hospitalname: 'KIMS' }, { departmentname: 'cardiology', head: 'Dr. L Sri Devi', contactnumber: '9876543210', hospitalname: 'KIMS' }, { departmentname: 'ENT', head: 'Dr. K Ram Prasad', contactnumber: '9876543210', hospitalname: 'CSI Mission Hospital' }, { departmentname: 'ophthalmology', head: 'Dr. J Sirisha', contactnumber: '9876543210', hospitalname: 'CSI Mission Hospital' }];
3. Create 2 APIs for above json and serve the files from node server.
4. Get JSON's async using RxJs/Observables in hospital.service.ts.
5. Create dynamic tables in both *hospital-view.component.html* and *departmentview.component.html* to display the details present in the *hospital.service.ts*.
6. Dynamic Table should include – editing of the fields, deleting of existing records, adding new records with all the required validations.
 - a. Create Shared Module for validation which can be used in both components.

On starting the application the details of hospitals should be displayed as shown below with the navigation link **'/hospital'**.

HOSPITAL MANAGEMENT SYSTEM

| Hospital List | | |
|-----------------------|----------------------|---|
| Sort by Hospital Name | | |
| Department Name | Contact Number | View Department |
| KIMS | 9632587410 | View Edit Delete |
| CSI Mission Hospital | 9685321470 | View Edit Delete |
| <input type="text"/> | <input type="text"/> | <input type="button" value="📄"/> <input type="button" value="🗑"/> |

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On clicking the **View** link the details of departments present in that particular hospital should be displayed as shown below with the navigation link **'/department'**.

HOSPITAL MANAGEMENT SYSTEM

Department List

Sort by Department NameBack

| Department Name | Head of Department | Contact Number | |
|-----------------|---------------------|----------------|-------------|
| NEPHROLOGY | Dr. A P Kulashekhar | 9876543210 | Edit Delete |
| NEUROLOGY | Dr.B Raj Kumar | 9876543210 | Edit Delete |
| CARDIOLOGY | Dr. L Sri Devi | 9876543210 | Edit Delete |



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Apply CRUD operations

1. Save data in JSON on Node server
2. Delete data in JSON on Node Server

The candidate needs to share the whole code i.e.

1. Source
2. Build/Dist

Upload the project in Github or combine the whole project in a zip file and share the same.