Index.html

<!doctype html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <title>AngularEventManagement</title>

  <base href="/">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="icon" type="image/x-icon" href="favicon.ico">

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

</head>

<body>

  <app-root></app-root>

</body>

</html>

employee.component.html

<div style="margin-top:3%">

    <form [formGroup]="employeeRef" (ngSubmit)="storeEmployee()" style="text-align:center">

    <input type="number" placeholder="Enter Emploee Id" formControlName="id"/>

    <input type="text" placeholder="Enter First Name" formControlName="first\_name"/>

    <input type="text" placeholder="Enter Last Name" formControlName="last\_name"/>

    <input type="text" placeholder="Enter Email Id" formControlName="email"/>

    <input type="submit" value="Add Employee" class="btn btn-success"/>

    </form><br/>

    <table border="1" class="table table-sm">

        <tr>

            <th>Employee Id</th>

            <th>First Name</th>

            <th>Last Name</th>

            <th>Email</th>

            <th>View Details</th>

        </tr>

        <tr \*ngFor="let employee of employees">

                <td>{{employee.id}}</td>

                <td>{{employee.first\_name}}</td>

                <td>{{employee.last\_name}}</td>

                <td>{{employee.email}}</td>

                <td><input type="button" value="View Details" (click)="viewDetails(employee)" class="btn btn-primary"></td>

        </tr>

    </table>

</div>

employee.component.ts

import { Component, OnInit } from '@angular/core';

import {FormGroup,FormControl} from '@angular/forms';

import { Router } from '@angular/router';

import { Employee } from '../employee';

import { EmployeeService } from '../employee.service';

@Component({

  selector: 'app-employee',

  templateUrl: './employee.component.html',

  styleUrls: ['./employee.component.css']

})

export class EmployeeComponent implements OnInit {

  employeeRef=new FormGroup({

    id:new FormControl(),

    first\_name:new FormControl(),

    last\_name:new FormControl(),

    email:new FormControl()

  });

  employees:Array<Employee>=[]

  constructor(public es:EmployeeService,public router:Router) { }

  ngOnInit(): void {

    this.loadEmployeeDetails();

  }

  loadEmployeeDetails() {

    //this.ps.loadProductData();

    this.es.loadEmployeeData().subscribe({

      next:(data:any)=>this.employees=data,

      error:(error:any)=>console.log(error),

      complete:()=>console.log("Completed")

    })

  }

  storeEmployee(){

    let employee = this.employeeRef.value;

    this.es.storeEmployeeData(employee).subscribe({

      next:(data:any)=>console.log(data),

      error:(error:any)=>console.log(error),

      complete:()=>this.loadEmployeeDetails()

    })

    this.employeeRef.reset();

  }

  viewDetails(employee:any){

    sessionStorage.setItem("employeeInfo",JSON.stringify(employee));

    this.router.navigate(["crud-operation"]);

  }

}

employee.ts

export class Employee {

    constructor(public id:number,public first\_name:string,public last\_name:string,public email:string){}

}

employee.service.ts

import { HttpClient } from '@angular/common/http';

import { Injectable } from '@angular/core';

import { Observable } from 'rxjs';

import { Employee } from './employee';

@Injectable({

  providedIn: 'root'

})

export class EmployeeService {

  constructor(public http:HttpClient) { }

   // we return Observable with array of product ie typecasting

   loadEmployeeData():Observable<Employee[]>{

    return this.http.get<Employee[]>("http://localhost:3000/employees");

  }

  // in post method 1st parameter url and 2nd parameter data in json format.

  storeEmployeeData(employee:any):Observable<Employee>{

    return this.http.post<Employee>("http://localhost:3000/employees",employee);

  }

  // it is consider as path param

  findEmployeeById(id:any):Observable<Employee>{

    return this.http.get<Employee>("http://localhost:3000/employees/"+id);

  }

  // it will delete using path param

  delete(id:any):Observable<any>{

    return this.http.delete<any>("http://localhost:3000/employees/"+id);

  }

   // in post method 1st parameter url and 2nd parameter data in json format.

   updateEmployee(employee:any):Observable<Employee>{

    return this.http.put<Employee>("http://localhost:3000/employees/",employee);

  }

}

app.module.ts

import {HttpClientModule} from '@angular/common/http';

import { AppRoutingModule } from './app-routing.module';

import { AppComponent } from './app.component';

import { EmployeeComponent } from './employee/employee.component';

import { CrudOperationComponent } from './crud-operation/crud-operation.component';

import { FormsModule,ReactiveFormsModule } from '@angular/forms';

import { UserComponent } from './user/user.component';

import { EditComponent } from './edit/edit.component';

@NgModule({

  declarations: [

    AppComponent,

    EmployeeComponent,

    CrudOperationComponent,

    UserComponent,

    EditComponent

  ],

  imports: [

    BrowserModule,

    AppRoutingModule,HttpClientModule,FormsModule,ReactiveFormsModule

  ],

  providers: [],

  bootstrap: [AppComponent]

})

export class AppModule { }

app.component.html

<div style="margin-top:4%">

  <h1 style="text-align:center ; color: blue;">Event Management App</h1>

  <router-outlet></router-outlet>

</div>

app-routing.module.ts

import { NgModule } from '@angular/core';

import { RouterModule, Routes } from '@angular/router';

import { CrudOperationComponent } from './crud-operation/crud-operation.component';

import { EditComponent } from './edit/edit.component';

import { Employee } from './employee';

import { EmployeeComponent } from './employee/employee.component';

import { UserComponent } from './user/user.component';

const routes: Routes = [

  {path:"employee",component:EmployeeComponent},

  {path:"crud-operation",component:CrudOperationComponent},

  {path:"user",component:UserComponent},

  {path:"edit",component:EditComponent}

];

@NgModule({

  imports: [RouterModule.forRoot(routes)],

  exports: [RouterModule]

})

export class AppRoutingModule { }

crud-operation.component.html

<div style="text-align:center ; margin-top: 2%;">

    <h2>Employee Details</h2>

    <p>Employee Id  {{employee.id}}</p>

    <p>First Name {{employee.first\_name}}</p>

    <p>Last Name {{employee.last\_name}}</p>

    <p>Email {{employee.email}}</p>

    <input type="button" class="btn btn-info"   value="View All Employee" (click)="ViewAll()"/>

    <input type="button" class="btn btn-danger"  value="Delete Employee" (click)="deleteEmployee(employee.id)"/>

    <input type="button"  class="btn btn-primary"  value="Update Employee Details" (click)="toDo()"/>

</div>

crud-operation.component.ts

import { Component, OnInit } from '@angular/core';

import { Router } from '@angular/router';

import { EmployeeService } from '../employee.service';

@Component({

  selector: 'app-crud-operation',

  templateUrl: './crud-operation.component.html',

  styleUrls: ['./crud-operation.component.css']

})

export class CrudOperationComponent implements OnInit {

  employee:any;

  constructor(public router:Router,public es:EmployeeService) { }

  ngOnInit(): void {

    let obj = sessionStorage.getItem("employeeInfo");

    if(obj != null){

        this.employee= JSON.parse(obj);

    }

  }

  ViewAll(){

    this.router.navigate(["employee"]);

}

deleteEmployee(id:any){

    this.es.delete(id).subscribe({

      next:(result:any)=>console.log(result),

      error:(error:any)=>console.log(error),

      complete:()=>console.log("completed")

    })

}

toDo(){

  this.router.navigate(["edit"]);

  }

}

edit.component.html

<div style="text-align:center ; margin-top:4%">

    <form [formGroup]="editEmployee" (ngSubmit)="updateEmployee()">

        <input type="text" placeholder="Enter First Name" formControlName="first\_name"/>

        <input type="text" placeholder="Enter Last Name" formControlName="last\_name"/>

        <input type="text" placeholder="Enter Email Id" formControlName="email"/>

        <input type="button" value="Save Details" class="btn btn-success" />

        </form><br/>

        <p style="color:green ; font-size:large">Data added successfully</p>

</div>

edit.component.ts

import { Component, OnInit } from '@angular/core';

import {FormGroup,FormControl} from '@angular/forms';

import { Router } from '@angular/router';

import { Employee } from '../employee';

import { EmployeeService } from '../employee.service';

import { HttpClient } from '@angular/common/http';

@Component({

  selector: 'app-edit',

  templateUrl: './edit.component.html',

  styleUrls: ['./edit.component.css']

})

export class EditComponent implements OnInit {

  editEmployee=new FormGroup({

    //id:new FormControl(),

    first\_name:new FormControl(),

    last\_name:new FormControl(),

    email:new FormControl()

  });

  msg:string="";

  constructor(public es:EmployeeService,public router:Router,public http:HttpClient) { }

  ngOnInit(): void {

  }

  updateEmployee(){

    console.log(this.editEmployee.value);

    let employee = this.editEmployee.value;

    this.es.updateEmployee(employee).subscribe({

      next:(data:any)=>console.log(data),

      error:(error:any)=>console.log(error),

      complete:()=>console.log("Completed")

    })

  }

}

user.component.html

<div style="text-align:center ; margin-top:2%">

    <h2>Admin Login</h2><br/>

    <form [formGroup]="loginRef" (ngSubmit)="checkUser()">

        <label style="font-size:larger">EmailId</label>

        <input type="email" formControlName="email"/><br/><br/>

        <label style="font-size:larger">Password</label>

        <input type="password" formControlName="pass"/><br/><br/>

        <input type="submit"   class="btn btn-success" value="submit"/>

        <input type="reset"  class="btn btn-primary"  value="reset"/>

        <input type="button"   class="btn btn-danger" value="Forgot Password"/>

    </form>

    <br/>

    <span style="color:red">{{msg}}</span>

</div>

user.component.ts

import { Component, OnInit } from '@angular/core';

import { FormGroup,FormControl } from '@angular/forms';

import { Router } from '@angular/router';

@Component({

  selector: 'app-user',

  templateUrl: './user.component.html',

  styleUrls: ['./user.component.css']

})

export class UserComponent implements OnInit {

  msg:string =""

  loginRef=new FormGroup({

  email:new FormControl(),

  pass:new FormControl()

});

  constructor(public router:Router) { }

  ngOnInit(): void {

  }

  checkUser(){

    let login = this.loginRef.value;

    if(login.email == "admin@gmail.com" && login.pass=="123"){

        this.router.navigate(["employee"]);

    }else {

        this.msg = "Failure try once again";

    }

  }

}

db.json

{

  "employees": [

    {

      "id": 2,

      "first\_name": "Steve",

      "last\_name": "Palmer",

      "email": "steve@codingthesmartway.com"

    },

    {

      "id": 3,

      "first\_name": "Ann",

      "last\_name": "Smith",

      "email": "ann@codingthesmartway.com"

    },

    {

      "id": 1,

      "first\_name": "Sebastian",

      "last\_name": "Eschweiler",

      "email": "sebastian@codingthesmartway.com"

    },

    {

      "id": 4,

      "first\_name": "Amit",

      "last\_name": "kumar",

      "email": "amit@gmail.com"

    }

  ]

}