**1.Components Page**

**Emp Component.html**

<!-- <nav class="navbar navbar-light bg-light">

    <div class="container-fluid">

      <a class="navbar-brand">Employee </a> -->

      <nav class="navbar navbar-light bg-primary">

        <div class="container-fluid">

            <h1 style="color:aliceblue ;">Employee Details</h1>

      <!-- <button class="btn btn-outline-success" data-bs-toggle="modal" data-bs-target="#studentModal" (click)="onAddClick();">Add Student</button>

  --><button  class="btn btn-success" data-bs-toggle="modal" data-bs-target="#studentModal"  (click)="onAddClick();">Add Employee</button>

    </div>

  </nav>

 <div class="container mt-2">

    <table class="table table-hover table-striped table-responsive">

        <thead>

            <tr>

                <th>Name</th>

                <th>Email</th>

                <th>Phone</th>

                <th>Address</th>

                <th>Action</th>

            </tr>

        </thead>

        <tbody>

            <tr \*ngFor="*let* item of studentDetails">

                <td>{{item.name}}</td>

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

                <td>{{item.phone}}</td>

                <td>{{item.address}}</td>

                <td>

                    <button (click)="edit(item)" data-bs-toggle="modal" data-bs-target="#studentModal" class="btn btn-sm btn-warning text-white mx-2">Edit</button>

                    <button (click)="deleteStudentDetail(item.id)" class="btn btn-sm btn-danger">Delete</button>

                </td>

            </tr>

        </tbody>

    </table>

 </div>

  <!-- Modal -->

  <div class="modal fade" id="studentModal" tabindex="-1" aria-labelledby="studentModalLabel" aria-hidden="true">

    <div class="modal-dialog">

      <div class="modal-content">

        <div class="modal-header">

          <h5 class="modal-title" id="studentModalLabel">Employee Information</h5>

          <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>

        </div>

        <div class="modal-body">

            <form [formGroup]="studentForm">

                <div class="mb-3">

                    <label  class="form-label">Full Name</label>

                    <input type="text" class="form-control"  placeholder="Full Name" formControlName="name">

                  </div>

                  <div class="mb-3">

                    <label  class="form-label">Email</label>

                    <input type="email" class="form-control"  placeholder="example@gmail.com" formControlName="email">

                  </div>

                  <div class="mb-3">

                    <label  class="form-label">Phone</label>

                    <input type="number" class="form-control"  placeholder="Phone" formControlName="phone">

                  </div>

                  <div class="mb-3">

                    <label  class="form-label">Address</label>

                    <input type="text" class="form-control"  placeholder="Address" formControlName="address">

                  </div>

            </form>

        </div>

        <div class="modal-footer">

          <button type="button" class="btn btn-secondary" data-bs-dismiss="modal" id="close" (click)="reset();">Close</button>

          <button type="button" class="btn btn-primary" (click)="updateStudentDetails()" \*ngIf="showUpdateBtn">Update Employee</button>

          <button type="button" class="btn btn-success" (click)="postStudentDetails()" \*ngIf="showAddBtn">Add Employee</button>

        </div>

      </div>

    </div>

  </div>

**Emp Component.Ts**

import { ComponentFixture, TestBed } from '@angular/core/testing';

import { StudentInformationComponent } from './student-information.component';

describe('StudentInformationComponent', () *=>* {

*let* component: StudentInformationComponent;

*let* fixture: ComponentFixture<StudentInformationComponent>;

  beforeEach(async () *=>* {

    await TestBed.configureTestingModule({

      declarations: [ StudentInformationComponent ]

    })

    .compileComponents();

  });

  beforeEach(() *=>* {

    fixture = TestBed.createComponent(StudentInformationComponent);

    component = fixture.componentInstance;

    fixture.detectChanges();

  });

  it('should create', () *=>* {

    expect(component).toBeTruthy();

  });

});

**Emp Component.Angular File**

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

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

import { ApiServiceService } from 'src/app/shared/api-service.service';

@Component({

  selector: 'app-student-information',

  templateUrl: './student-information.component.html',

  styleUrls: ['./student-information.component.css']

})

export *class* StudentInformationComponent implements OnInit {

  studentForm!: FormGroup;

  studentModel:*any*;

  studentDetails:*any*;

  showAddBtn:*boolean*=true;

  showUpdateBtn:*boolean*=false;

*constructor*(private *api*: ApiServiceService, private *fb*: FormBuilder) { }

  ngOnInit(): *void* {

    this.getAllStudentDetails();

    this.createStudentForm();

  }

  createStudentForm(){

    this.studentForm = this.fb.group({

      id:[''],

      name:[''],

      email:[''],

      phone:[''],

      address:[],

    });

  }

  getAllStudentDetails(){

    this.api.getAllStudent().subscribe(*res=>*{

      this.studentDetails = *res*;

    }, *err=>*{

      console.log(*err*);

    })

  }

  onAddClick(){

    this.showAddBtn=true;

    this.showUpdateBtn=false;

  }

  postStudentDetails(){

    this.studentModel = *Object*.assign({}, this.studentForm.value);

    this.api.postStudent(this.studentModel).subscribe(*res=>*{

      alert("Student Information added successfully");

*let* close = document.getElementById('close');

      close?.click();

      this.studentForm.reset();

      this.getAllStudentDetails();

    }, *err=>*{

      alert("Error");

    })

  }

  deleteStudentDetail(*id*:*any*){

    this.api.deleteStudent(id).subscribe(*res=>*{

      alert("Student information deleted successfully");

      this.getAllStudentDetails();

    }, *err=>*{

      alert("Failed to delete student information");

    })

  }

  edit(*stduent*:*any*){

    this.showAddBtn=false;

    this.showUpdateBtn=true;

    this.studentForm.controls['id'].setValue(*stduent*.id);

    this.studentForm.controls['name'].setValue(*stduent*.name);

    this.studentForm.controls['email'].setValue(*stduent*.email);

    this.studentForm.controls['phone'].setValue(*stduent*.phone);

    this.studentForm.controls['address'].setValue(*stduent*.address);

  }

  updateStudentDetails(){

    this.studentModel = *Object*.assign({}, this.studentForm.value);

    this.api.updateStudent(this.studentModel, this.studentModel.id).subscribe(*res=>*{

      alert("Student information updated successfully");

*let* close = document.getElementById('close');

      close?.click();

      this.getAllStudentDetails();

      this.studentForm.reset();

      this.studentModel={};

    }, *err=>*{

      alert("Error in updating student information");

    })

  }

  reset(){

    this.studentForm.reset();

    this.studentModel={};

  }

}

**2.Login Page**

**Login.css**

.card{

*border*:none;

*width*: 500px;

*padding*:40px;

*position*:absolute;

*top*:50%;

*left*:50%;

*transform*: translate(-50%,-50%);

*background*: (205,46%,30%,1);

*background*: linear-gradient(90deg, hsla(205,46%,30%,1) 0%, hsla(265,29%,36%,1) 100%);

}

.card h1,

h6{

*color*: #fff;

}

label{

*color*: #fff;

}

Login.html

<div class="container">

    <div class="row">

    <div class="col-md-6">

        <div class="card">

            <div class="text-center">

                <h1>Login</h1>

                <h6>Please enter email & Password!!</h6>

            </div>

                <form>

                    <div class="mb-3">

                      <label for="exampleInputEmail1" class="form-label">Email address</label>

                      <input type="email" class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp">

                      <div id="emailHelp" class="form-text">We'll never share your email with anyone else.</div>

                    </div>

                    <div class="mb-3">

                      <label for="exampleInputPassword1" class="form-label">Password</label>

                      <input type="password" class="form-control" id="exampleInputPassword1">

                    </div>

                    <button type="submit" class="btn btn-primary">Login</button>

                  </form>

                  <a  style ="color: #fff ;margin-top:10px" routerLink="/signup">New User? Click to Sign Up!!</a>

    </div>

</div>

</div>

**Login.ts**

import { ComponentFixture, TestBed } from '@angular/core/testing';

import { LoginComponent } from './login.component';

describe('LoginComponent', () *=>* {

*let* component: LoginComponent;

*let* fixture: ComponentFixture<LoginComponent>;

  beforeEach(async () *=>* {

    await TestBed.configureTestingModule({

      declarations: [ LoginComponent ]

    })

    .compileComponents();

  });

  beforeEach(() *=>* {

    fixture = TestBed.createComponent(LoginComponent);

    component = fixture.componentInstance;

    fixture.detectChanges();

  });

  it('should create', () *=>* {

    expect(component).toBeTruthy();

  });

});

**3.Sign Up**

<div class="container">

    <div class="row">

    <div class="col-md-6">

        <div class="card">

            <div class="text-center">

                <h1>Sign Up</h1>

                <h6>Register Yourself!</h6>

            </div>

            <form >

                <form>

                    <div class="mb-3">

                        <label for="exampleInputPassword1" class="form-label">Full Name</label>

                        <input type="text" class="form-control" id="exampleInputPassword1">

                      </div>

                      <div class="mb-3">

                        <label for="exampleInputPassword1" class="form-label">Mobile Number</label>

                        <input type="number" class="form-control" id="exampleInputPassword1">

                      </div>

                    <div class="mb-3">

                      <label for="exampleInputEmail1" class="form-label">Email address</label>

                      <input type="email" class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp">

                      <div id="emailHelp" class="form-text">We'll never share your email with anyone else.</div>

                    </div>

                    <div class="mb-3">

                      <label for="exampleInputPassword1" class="form-label">Password</label>

                      <input type="password" class="form-control" id="exampleInputPassword1">

                    </div>

                    <button type="submit" class="btn btn-primary">Sign UP</button>

                  </form>

                  <a  style ="color: #fff ;margin-top:10px" routerLink="/login">Already Registerd? Click to Login!!</a>

            </form>

        </div>

    </div>

</div>

</div>

<div class="container">

    <div class="row">

    <div class="col-md-6">

        <div class="card">

            <div class="text-center">

                <h1>Sign Up</h1>

                <h6>Register Yourself!</h6>

            </div>

            <form >

                <form>

                    <div class="mb-3">

                        <label for="exampleInputPassword1" class="form-label">Full Name</label>

                        <input type="text" class="form-control" id="exampleInputPassword1">

                      </div>

                      <div class="mb-3">

                        <label for="exampleInputPassword1" class="form-label">Mobile Number</label>

                        <input type="number" class="form-control" id="exampleInputPassword1">

                      </div>

                    <div class="mb-3">

                      <label for="exampleInputEmail1" class="form-label">Email address</label>

                      <input type="email" class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp">

                      <div id="emailHelp" class="form-text">We'll never share your email with anyone else.</div>

                    </div>

                    <div class="mb-3">

                      <label for="exampleInputPassword1" class="form-label">Password</label>

                      <input type="password" class="form-control" id="exampleInputPassword1">

                    </div>

                    <button type="submit" class="btn btn-primary">Sign UP</button>

                  </form>

                  <a  style ="color: #fff ;margin-top:10px" routerLink="/login">Already Registerd? Click to Login!!</a>

            </form>

        </div>

    </div>

</div>

</div>

**4.API Service.ts**

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

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

import { environment } from 'src/environments/environment';

@Injectable({

  providedIn: 'root'

})

export *class* ApiServiceService {

*constructor*(private *http*: HttpClient) { }

  baseUrl : *string* = environment.baseUrl;

  postStudent(*data*:*any*){

    return this.http.post<*any*>(this.baseUrl+'/students', *data*);

  }

  getAllStudent(){

    return this.http.get<*any*>(this.baseUrl+'/students');

  }

  deleteStudent(*id*:*any*){

    return this.http.delete<*any*>(this.baseUrl+'/students/'+ *id*);

  }

  updateStudent(*data*:*any*, *id*:*number*){

    return this.http.put<*any*>(this.baseUrl+'/students/'+*id*, *data*);

  }

}

**5.Index.html**

<!doctype html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <title>EmployeeInfo</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>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>

</body>

</html>

**6.Db.json**

{

*"employee"*: [

    {

*"id"*: 1,

*"name"*: "Sebastian",

*"email"*: "sebastian@codingthesmartway.com",

*"phone"*: 9465465465,

*"address"*: "Delhi"

    },

    {

*"id"*: 2,

*"name"*: "steve Palmer",

*"email"*: "steve@codingthesmartway.com",

*"phone"*: 7894654654,

*"address"*: "Zurich"

    },

    {

*"id"*: 3,

*"name"*: "Ann Smith",

*"email"*: "ann@codingthesmartway.com",

*"phone"*: 6754654654,

*"address"*: "Dublin"

    }

  ]

}