Admin.component.html

```
<div class = "row" style="padding-top: 30px;">
  <div class="col">
    <h2> Employee List</h2>
  </div>
  <div class="col">
    <button class="btn btn-success btn-sm float-right" (click) = "add()">
      <a routerLink="user" routerLinkActive="active" class="nav-link" style="color: white;"
>Add Employee</a>
    </button>
  </div>

</div>

<table class = "table table-striped table-bordered text-center">
  <thead>
      <tr>
          <th>Id</th>
          <th> First Name</th>
          <th> Last Name </th>
          <th> Email</th>
          <th> Actions</th>
      </tr>
  </thead>
  <tbody>
      <tr *ngFor = "let employee of employees" >
        <td> {{ employee.id }} </td>
          <td> {{ employee.firstName }} </td>
          <td> {{ employee.lastName }} </td>
          <td> {{ employee.emailId }} </td>
          <td>
              <button (click) = "employeeDetails(employee.id)" class = "btn btn-primary btn-
sm" style="margin-left: 10px"> View Details</button>
          </td>
      </tr>
  </tbody>
</table>
```

Admin.component.ts

```
import { Router } from '@angular/router';
import { Component, OnInit } from '@angular/core';
import { CrudService } from '../crud.service';
import { Employee } from '../Employee';

@Component({
  selector: 'app-admin',
  templateUrl: './admin.component.html',
  styleUrls: ['./admin.component.css']
})
export class AdminComponent implements OnInit {

  employees:Employee[];
  constructor(private crudService:CrudService ,private router:Router ) { }

  ngOnInit(): void {
    this.getEmployees();
  }

  private getEmployees(){
    this.crudService.getEmployeesList().subscribe(data => {
      this.employees = data;
    });
  }

  add(){
    this.router.navigate(['user']);
  }
  employeeDetails(id: number){
    this.router.navigate(['details', id]);
  }

  updateEmployee(id: number){
    this.router.navigate(['edit', id]);
  }

  deleteEmployee(id: number){
    this.crudService.deleteEmployee(id).subscribe( data => {
      console.log(data);
      this.getEmployees();
    })
  }
}
```

Details.component.html

```
<h3 style="margin-top: 30px;">Employee Details</h3>
<div class="jumbotron">
    <div>
        <label> <b> Id: </b></label> {{employee.id}}
    </div>
    <div>
        <label> <b> First Name: </b></label> {{employee.firstName}}
    </div>
    <div>
        <label> <b> Last Name: </b></label> {{employee.lastName}}
    </div>
    <div>
        <label> <b> Email Id: </b></label> {{employee.emailId}}
    </div>
    <div>
        <button (click)="updateEmployee(employee.id)" class="btn btn-warning" style="margin-right: 3px;">Edit</button>
        <button (click)="deleteEmployee(employee.id)" class="btn btn-danger">Delete</button>
    </div>
</div>
<div style="margin-top:-25px ;">
    <button (click)="goBack()" class="btn btn-primary">Back</button>
</div>
```

Details.component.ts

```
import { Component, OnInit } from '@angular/core';
import { ActivatedRoute, Router } from '@angular/router';
import { CrudService } from '../crud.service';
import { Employee } from '../Employee';

@Component({
  selector: 'app-details',
  templateUrl: './details.component.html',
  styleUrls: ['./details.component.css']
})
export class DetailsComponent implements OnInit {

  id: number
  employee: Employee

  constructor(private route:ActivatedRoute, private crudService:CrudService,private router:Router) { }

  ngOnInit(): void {
    this.id = this.route.snapshot.params['id'];

    this.employee = new Employee();
    this.crudService.getEmployeeById(this.id).subscribe( data => {
      this.employee = data;
    });
  }
  goBack(){
    this.router.navigate(['admin']);
  }

  updateEmployee(id: number){
    this.router.navigate(['edit', id]);
  }

  deleteEmployee(id: number){
    this.crudService.deleteEmployee(id).subscribe( data => {
      alert("Employee data deleted");
      this.router.navigate(['admin']);
    })

}
}
```

Edit.component.html

```
<h3 style="text-align: center;padding-top: 30px;"> Update Employee </h3>
<div class="row">
    <div class="card col-md-6 offset-md-3 offset-md-3">
        <div class="row">


            <div class="card-body">
                <form [formGroup]="registerForm" (ngSubmit)="onSubmit()">

                    <div class="form-group">
                        <label> First Name</label>
                        <input type="text" class="form-control" id="firstName"
[(ngModel)]="employee.firstName"
                            name="firstName"  formControlName="firstName" [ngClass]="{'is-
invalid': submitted && f['firstName'].errors}">
                            <div *ngIf="submitted && f['firstName'].errors">
                                <div *ngIf="submitted && f['firstName'].errors['required']">
                                    FirstName  is required
                                </div>
                            </div>
                    </div>

                    <div class="form-group">
                        <label> Last Name</label>
                        <input type="text" class="form-control" id="lastName"
[(ngModel)]="employee.lastName"
                            name="lastName" formControlName="lastName" [ngClass]="{'is-
invalid': submitted && f['lastName'].errors}">
                            <div *ngIf="submitted && f['lastName'].errors">
                                <div *ngIf="submitted && f['lastName'].errors['required']">
                                    LastName  is required
                                </div>
                            </div>
                    </div>

                    <div class="form-group">
                        <label> Email Id</label>
                        <input type="email" class="form-control" id="emailId"
[(ngModel)]="employee.emailId"
                            name="emailId" formControlName="emailId" [ngClass]="{'is-invalid':
submitted && f['emailId'].errors}">
                            <div *ngIf="submitted && f['emailId'].errors">
                                <div *ngIf="submitted && f['emailId'].errors['required']">
```

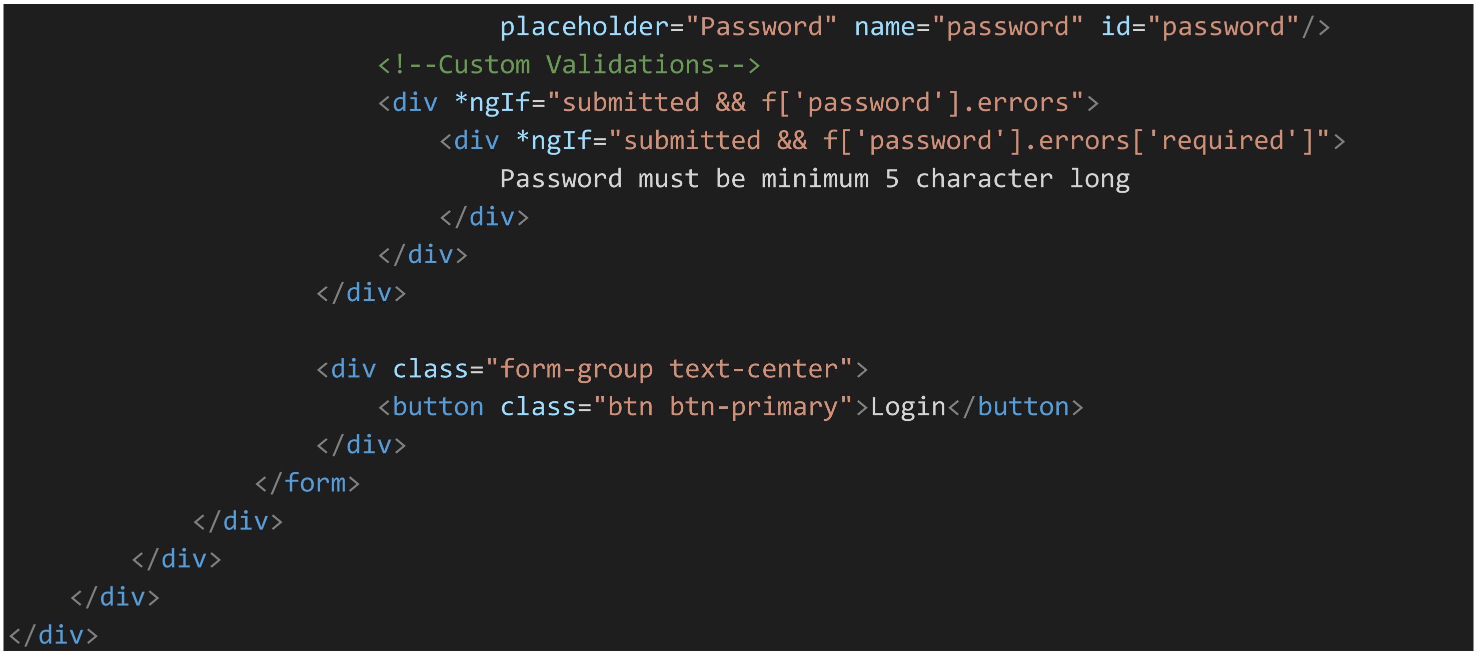
```
                                    Email  is required
                                </div>
                            </div>
                    </div>
                    <button class="btn btn-success" type="submit">Submit</button>

                </form>
            </div>
        </div>
    </div>
</div>
```

Edit.component.ts

```
import { Component, OnInit } from '@angular/core';
import { CrudService } from '../crud.service';
import { ActivatedRoute, Router } from '@angular/router';
import { Employee} from '../Employee';
import { FormGroup,FormBuilder,Validators } from '@angular/forms';

@Component({
  selector: 'app-edit',
  templateUrl: './edit.component.html',
  styleUrls: ['./edit.component.css']
})
export class EditComponent implements OnInit {

  registerForm: FormGroup;
  submitted:boolean=false;
  id:number;
  employee: Employee = new Employee();

  constructor(private crudService: CrudService,private router:Router,
              private route:ActivatedRoute,private builder:FormBuilder) { }

  ngOnInit(): void {
    this.id = this.route.snapshot.params['id'];
    this.crudService.getEmployeeById(this.id).subscribe(data => {
      this.employee = data;
    }, error => console.log(error));

    this.registerForm= this.builder.group(
      {
        firstName:["",Validators.required],
        lastName:["",Validators.required],
        emailId:["",[Validators.required,Validators.email]]
      }
    );
  }
  onSubmit(){
    this.submitted=true;
    if(this.registerForm.invalid)
      return;
    else{
      this.crudService.updateEmployee(this.id, this.employee).subscribe( data =>{
        this.goToEmployeeList();
      }
      , error => console.log(error));
    }
  }
  get f(){
    return this.registerForm.controls;
  }

  goToEmployeeList(){
    this.router.navigate(['/admin']);
  }
}
```

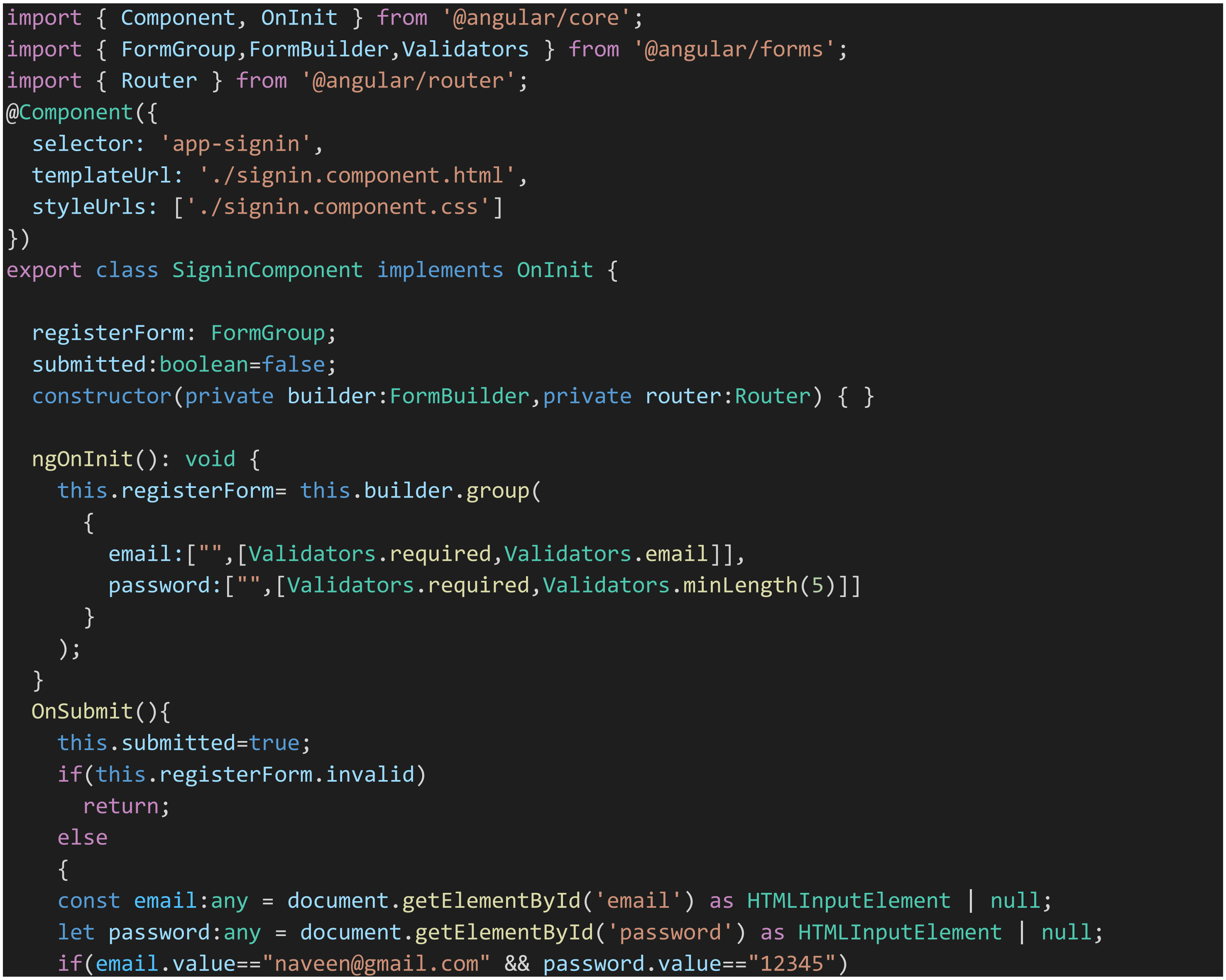
Signin.component.html

```
<div class="container-fluid" style="padding-top: 40px;">
    <div class="container">

        <div class="row">
            <div class="col-md-6 offset-md-3 ">

                <form [formGroup]="registerForm" (ngSubmit)="OnSubmit()">
                    <h2 style="text-align:center">Sign in</h2>
                    <!--email-->
                    <div class="form-group">
                        <label>Email</label>
                        <input type="email" formControlName="email" class="form-control"
[ngClass]="{'is-invalid': submitted && f['email'].errors}"
                                placeholder="Email" id="email" name="email"/>
                        <!--Custom Validations-->
                        <div *ngIf="submitted && f['email'].errors">
                            <div *ngIf="submitted && f['email'].errors['required']">
                                Email  is required
                            </div>
                        </div>
                    </div>

                    <!--Password-->

                    <div class="form-group">
                        <label>Password</label>
                        <input type="password" formControlName="password" class="form-control"
[ngClass]="{'is-invalid': submitted && f['password'].errors}"
```

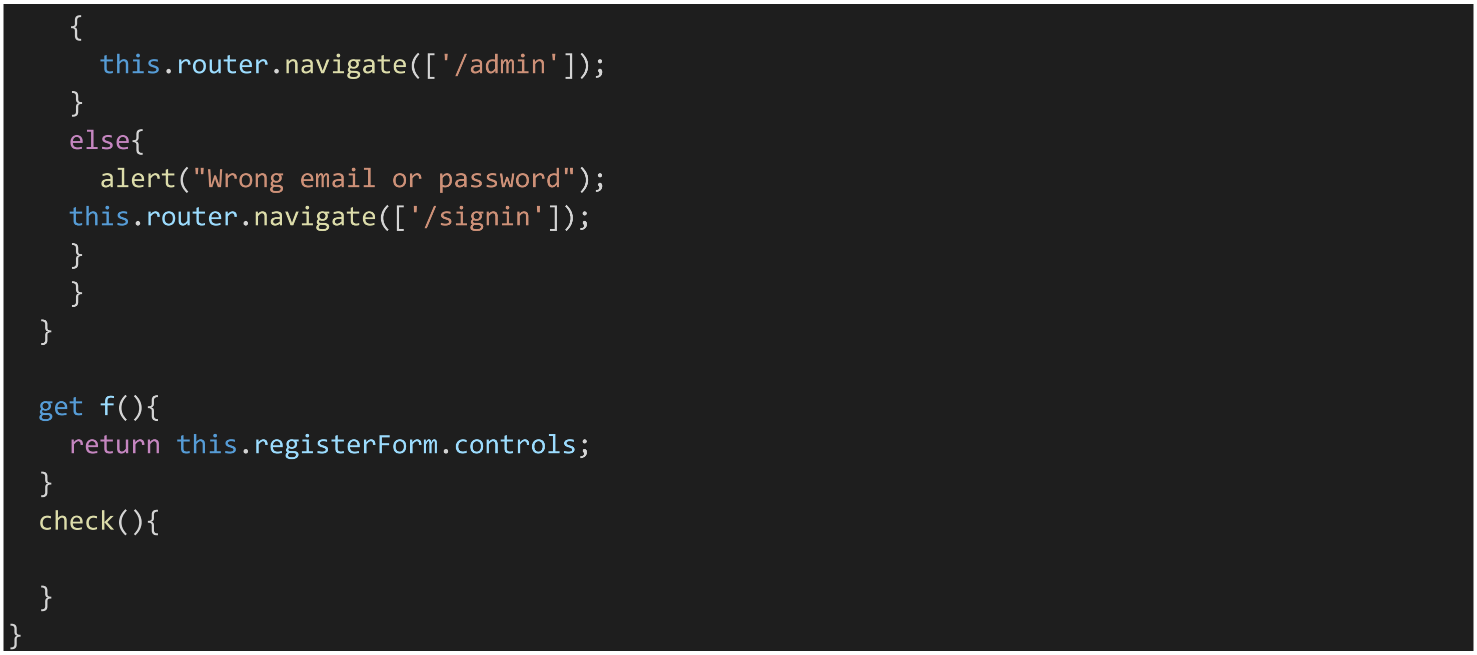


```
                                placeholder="Password" name="password" id="password"/>
                        <!--Custom Validations-->
                        <div *ngIf="submitted && f['password'].errors">
                            <div *ngIf="submitted && f['password'].errors['required']">
                                Password must be minimum 5 character long
                            </div>
                        </div>
                    </div>

                    <div class="form-group text-center">
                        <button class="btn btn-primary">Login</button>
                    </div>
                </form>
            </div>
        </div>
    </div>
</div>
```

Signin.component,.ts

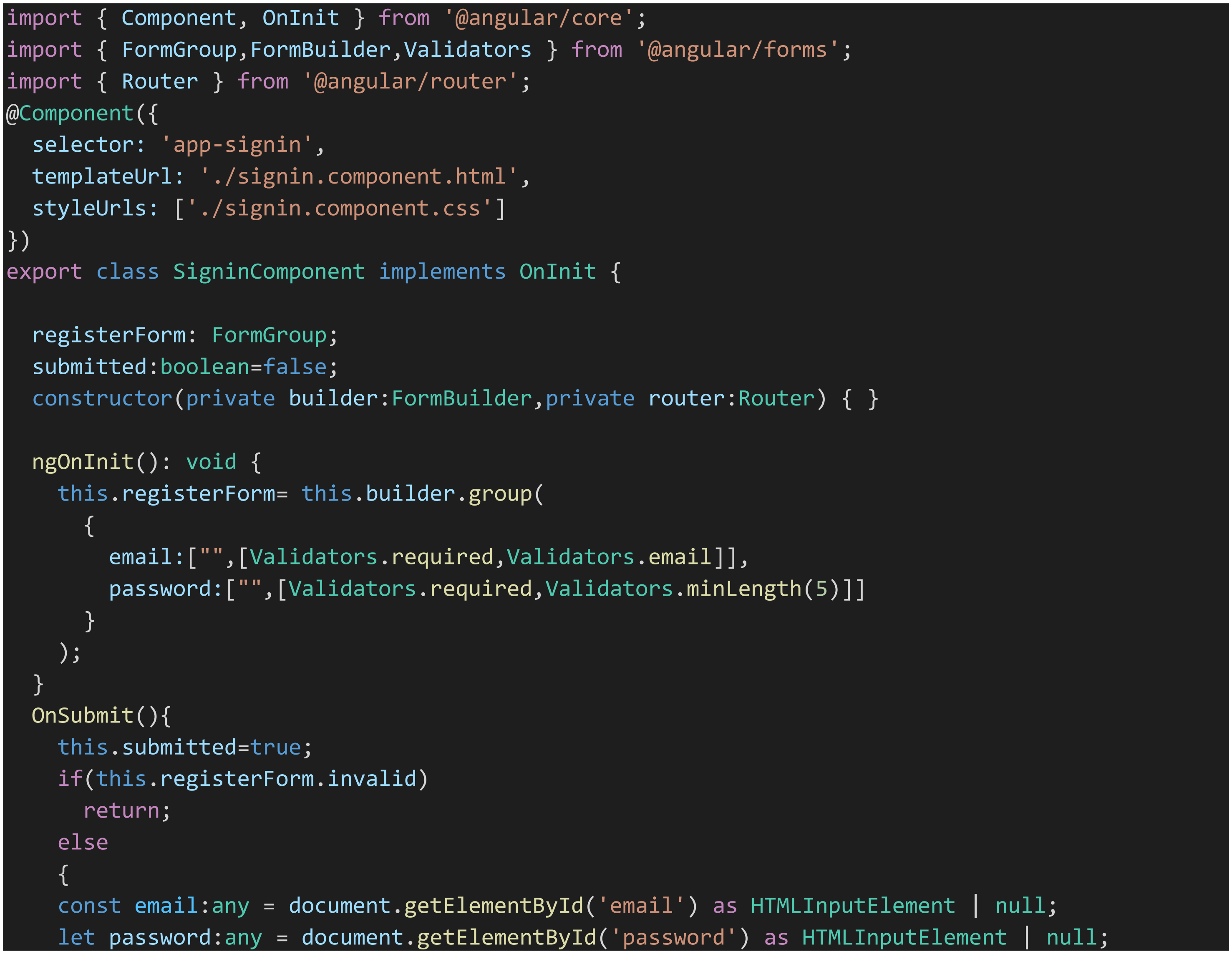


```
import { Component, OnInit } from '@angular/core';
import { FormGroup,FormBuilder,Validators } from '@angular/forms';
import { Router } from '@angular/router';
@Component({
  selector: 'app-signin',
  templateUrl: './signin.component.html',
  styleUrls: ['./signin.component.css']
})
export class SigninComponent implements OnInit {

  registerForm: FormGroup;
  submitted:boolean=false;
  constructor(private builder:FormBuilder,private router:Router) { }

  ngOnInit(): void {
    this.registerForm= this.builder.group(
      {
        email:["",[Validators.required,Validators.email]],
        password:["",[Validators.required,Validators.minLength(5)]]
      }
    );
  }
  OnSubmit(){
    this.submitted=true;
    if(this.registerForm.invalid)
      return;
    else
    {
    const email:any = document.getElementById('email') as HTMLInputElement | null;
    let password:any = document.getElementById('password') as HTMLInputElement | null;
    if(email.value=="naveen@gmail.com" && password.value=="12345")
```



```
    {
      this.router.navigate(['/admin']);
    }
    else{
      alert("Wrong email or password");
    this.router.navigate(['/signin']);
    }
    }
  }

  get f(){
    return this.registerForm.controls;
  }
  check(){

  }
}
```

User.component.html



```
import { Component, OnInit } from '@angular/core';
import { FormGroup,FormBuilder,Validators } from '@angular/forms';
import { Router } from '@angular/router';
@Component({
  selector: 'app-signin',
  templateUrl: './signin.component.html',
  styleUrls: ['./signin.component.css']
})
export class SigninComponent implements OnInit {

  registerForm: FormGroup;
  submitted:boolean=false;
  constructor(private builder:FormBuilder,private router:Router) { }

  ngOnInit(): void {
    this.registerForm= this.builder.group(
      {
        email:["",[Validators.required,Validators.email]],
        password:["",[Validators.required,Validators.minLength(5)]]
      }
    );
  }
  OnSubmit(){
    this.submitted=true;
    if(this.registerForm.invalid)
      return;
    else
    {
    const email:any = document.getElementById('email') as HTMLInputElement | null;
    let password:any = document.getElementById('password') as HTMLInputElement | null;
    if(email.value=="naveen@gmail.com" && password.value=="12345")
    {
      this.router.navigate(['/admin']);
    }
    else{
      alert("Wrong email or password");
    this.router.navigate(['/signin']);
    }
    }
  }

  get f(){
    return this.registerForm.controls;
  }
  check(){

  }
}
```

User.component.ts

```
import { Component, OnInit } from '@angular/core';
import { Router } from '@angular/router';
import { CrudService } from '../crud.service';
import { Employee } from '../Employee';
import { FormGroup,FormBuilder,Validators } from '@angular/forms';

@Component({
  selector: 'app-user',
  templateUrl: './user.component.html',
  styleUrls: ['./user.component.css']
})
export class UserComponent implements OnInit {

  registerForm: FormGroup;
  submitted:boolean=false;
  employee: Employee = new Employee();

  constructor(private crudService: CrudService,private router:Router,private
builder:FormBuilder) { }

  ngOnInit(): void {
    this.registerForm= this.builder.group(
      {
        firstName:["",Validators.required],
        lastName:["",Validators.required],
        emailId:["",[Validators.required,Validators.email]]
      }
    );
   }
  saveEmployee(){
    this.crudService.createEmployee(this.employee).subscribe( data =>{
      console.log(data);
      this.goToEmployeeList();
    },
    error => console.log(error));
  }

  goToEmployeeList(){
    this.router.navigate(['/admin']);
  }

  onSubmit(){
    this.submitted=true;
    if(this.registerForm.invalid)
      return;
    else{
      console.log(this.employee);
      this.saveEmployee();
    }
  }
  get f(){
    return this.registerForm.controls;
  }
}
```

App.component.html

```
<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
  <a href="#" class="navbar-brand">Event Management</a>
  <ul class = "navbar-nav">
      <li class="nav-item">
        <a routerLink="signin" class="nav-link">Signin</a>
      </li>
  </ul>
</nav>
<div class = "container">
  <router-outlet></router-outlet>
</div>
```

Crud.service.specs.ts

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

import { CrudService } from './crud.service';

describe('CrudService', () => {
  let service: CrudService;

  beforeEach(() => {
    TestBed.configureTestingModule({});
    service = TestBed.inject(CrudService);
  });

  it('should be created', () => {
    expect(service).toBeTruthy();
  });
});
```

Crud.service.ts

```
import { Injectable } from '@angular/core';
import { HttpClient} from '@angular/common/http';
import { Observable} from 'rxjs';
import { Employee } from './Employee';

@Injectable({
  providedIn: 'root'
})
export class CrudService {

  constructor(private http: HttpClient) { }

  apiURL: string = 'http://localhost:3000/employees';

  getEmployeesList(): Observable<Employee[]>{
    return this.http.get<Employee[]>(`${this.apiURL}`);
  }

  createEmployee(employee: Employee): Observable<Object>{
    return this.http.post(`${this.apiURL}`, employee);
  }

  getEmployeeById(id: number): Observable<Employee>{
    return this.http.get<Employee>(`${this.apiURL}/${id}`);
  }

  updateEmployee(id: number, employee: Employee): Observable<Object>{
    return this.http.put(`${this.apiURL}/${id}`, employee);
  }

  deleteEmployee(id: number): Observable<Object>{
    return this.http.delete(`${this.apiURL}/${id}`);
  }
}
```

Data.json

```
{
  "employees": [
    {
      "id": 1,
      "firstName": "Mehantha",
      "lastName": "Palani",
      "emailId": "meha@gmail.com"
    },
    {
      "id": 2,
      "firstName": "Iniyan",
      "lastName": "Kumar",
      "emailId": "iniyan@gmail.com"
    },
    {
      "firstName": "Mithran",
      "lastName": "Kumar",
      "emailId": "Mithran@gmail.com",
      "id": 3
    }
  ]
}
```

Employee.ts

```
export class Employee{
    id:number;
    firstName:string;
    lastName:string;
    emailId:string;
}
```

Index.html

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>EventManagement</title>
  <base href="/">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="icon" type="image/x-icon" href="favicon.ico">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css"
integrity="sha384-xOolHFLEh07PJGoPkLv1IbcEPTNtaed2xpHsD9ESMhqIYd0nLMwNLD69Npy4HI+N"
crossorigin="anonymous">

</head>
<body>
  <app-root></app-root>
  <script src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"
integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-Fy6S3B9q64WdZWQUiU+q4/2Lc9npb8tCaSX9FK7E8HnRr0Jz8D6OP9dO5Vg3Q9ct"
crossorigin="anonymous"></script>

</body>
</html>
```

Dp.json

```
{
  "posts": [
    {
      "id": 1,
      "title": "json-server",
      "author": "typicode"
    }
  ],
  "comments": [
    {
      "id": 1,
      "body": "some comment",
      "postId": 1
    }
  ],
  "profile": {
    "name": "typicode"
  }
}
```