CRUD operation using Angular JSON

Create application: ng new crudapp –routing –style=css

Create some components: ng g c user/userform, ng g c user/userdetails, ng g c user/userlist, ng g c user/useredit.

Created one service: ng g s user

Crate one model – mode-🡪 user.model.ts

export class User{

    id:number;

    name:string;

    email:string;

}

Routing.module.ts

const routes: Routes = [

  {path:"userlist",component:UserlistComponent},

  {path:"userform",component:UserformComponent},

  {path:"userdetails/:id",component:UserdetailsComponent},

  {path:"edituser/:id",component:UsereditComponent}

];

App.component.html

<div class="container">

<ul class="nav">

  <li class="nav-item">

    <a class="nav-link" routerLink="userlist">User List</a>

  </li>

  <li class="nav-item">

    <a class="nav-link" routerLink="userform">User Form</a>

  </li>

</ul>

<router-outlet></router-outlet>

</div>

Added HttpClientModule, FormsModule in app.module.ts

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

import { BrowserModule } from '@angular/platform-browser';

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

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

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

import { UserformComponent } from './user/userform/userform.component';

import { UserlistComponent } from './user/userlist/userlist.component';

import { UserdetailsComponent } from './user/userdetails/userdetails.component';

import { UsereditComponent } from './user/useredit/useredit.component';

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

@NgModule({

  declarations: [

    AppComponent,

    UserformComponent,

    UserlistComponent,

    UserdetailsComponent,

    UsereditComponent

  ],

  imports: [

    BrowserModule,

    AppRoutingModule,

    HttpClientModule,FormsModule

  ],

  providers: [],

  bootstrap: [AppComponent]

})

export class AppModule { }

user.service.ts for api calls

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

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

import { Observable } from 'rxjs';

import { User } from './models/user.model';

@Injectable({

  providedIn: 'root'

})

export class UserService {

  baseUrl:string="http://localhost:3000/users";

  constructor(private http:HttpClient) { }

  getAllUsers():Observable<User[]>{

    return this.http.get<User[]>(this.baseUrl);

  }

  getUserById(id:number):Observable<User>{

    return this.http.get<User>(this.baseUrl+"/"+id);

  }

  saveUser(user:User){

    return this.http.post(this.baseUrl,user)

  }

  deleteUser(id:number){

    return this.http.delete(this.baseUrl+"/"+id);

  }

  updateUser(id:number,user:User){

    return this.http.put(this.baseUrl+"/"+id,user);

  }

}

To get Data userlist.component.ts

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

import { User } from 'src/app/models/user.model';

import { UserService } from 'src/app/user.service';

@Component({

  selector: 'app-userlist',

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

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

})

export class UserlistComponent {

  users:User[]

  constructor(private service:UserService){}

  ngOnInit(){

    this.service.getAllUsers().subscribe(ob=>this.users=ob)

  }

  onDelete(id:number){

    this.users= this.users.filter(x=>x.id!=id);

    this.service.deleteUser(id).

    subscribe(x=>console.log(x));

  }

}

Userlist.component.html

<table class="table table-bordered table-striped">

    <thead>

        <tr>

            <th>Id</th><th>Name</th><th>Email</th><th>Operation</th>

        </tr>

    </thead>

    <tbody>

        <tr \*ngFor="let u of users">

            <td>{{u.id}}</td>

            <td>{{u.name}}</td>

            <td>{{u.email}}</td>

            <td>

                <button class="btn btn-danger"

                (click)="onDelete(u.id)">delete</button>

                <a routerLink="/edituser/{{u.id}}">

                    <button class="btn btn-primary">edit</button>

                </a>

            </td>

        </tr>

    </tbody>

</table>

For Add: userform.component.ts

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

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

import { User } from 'src/app/models/user.model';

import { UserService } from 'src/app/user.service';

@Component({

  selector: 'app-userform',

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

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

})

export class UserformComponent {

  user:User= new User();

  constructor(private service:UserService,private router:Router){}

  onSubmit(){

    //console.log(this.user)

    this.service.saveUser(this.user).subscribe(x=>console.log(x));

    alert("User added Successfully")

    this.router.navigate(['userlist'])

  }

}

Userform.component.html

<form (ngSubmit)="onSubmit()">

    <div class="form-group">

        <label>Id</label>

        <input type="text" name="id" placeholder="Enter Id" [(ngModel)]="user.id"

        class="form-control">

    </div>

    <div class="form-group">

        <label>Name</label>

        <input type="text" name="name" placeholder="Enter Name" [(ngModel)]="user.name"

        class="form-control">

    </div>

    <div class="form-group">

        <label>Email</label>

        <input type="text" name="email" placeholder="Enter email"

        [(ngModel)]="user.email" class="form-control">

    </div>

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

</form>

For update: useredit.component.ts

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

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

import { User } from 'src/app/models/user.model';

import { UserService } from 'src/app/user.service';

@Component({

  selector: 'app-useredit',

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

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

})

export class UsereditComponent {

  constructor(private service:UserService,private activatedRoute:ActivatedRoute,

    private router:Router){}

  id:string | null;

  user:User;

  ngOnInit(){

    this.id= this.activatedRoute.snapshot.paramMap.get('id');

    this.service.getUserById(Number(this.id)).subscribe(ob=>this.user=ob);

  }

  onSubmit(){

    this.service.updateUser(Number(this.id),this.user).subscribe(x=>console.log(x));

    alert("User Updated Successfully")

    this.router.navigate(['userlist'])

  }

}

Useredit.component.html

<h1>Edit Profile</h1>

<form (ngSubmit)="onSubmit()">

    <div class="form-group">

        <label>Name</label>

        <input type="text" name="name" placeholder="Enter Name" [(ngModel)]="user.name"

        class="form-control">

    </div>

    <div class="form-group">

        <label>Email</label>

        <input type="text" name="email" placeholder="Enter email"

        [(ngModel)]="user.email" class="form-control">

    </div>

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

</form>

For Details you can try by your own as pervious example.