Assignment 2(C)

# app.module.ts

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

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

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

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

import { ProfileComponent } from './profile/profile.component';

@NgModule({ declarations: [ AppComponent, RegisterComponent, LoginComponent, ProfileComponent

],

imports: [ BrowserModule, AppRoutingModule, FormsModule

],

providers: [],

bootstrap: [AppComponent]

})

export class AppModule { }

# app.routing-module.ts

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

import { RouterModule, Routes } from '@angular/router'; import { LoginComponent } from './login/login.component';

import { RegisterComponent } from './register/register.component'; import { ProfileComponent } from './profile/profile.component';

const routes: Routes = [

{path:'login', component:LoginComponent},

{path:'register', component:RegisterComponent},

{path:'profile',component:ProfileComponent}

];

@NgModule({

imports: [RouterModule.forRoot(routes)], exports: [RouterModule]

})

export class AppRoutingModule { }

# app.component.html

<button type="button" routerLink="/register">Register</button>

<button type="button" routerLink="/login">Login</button>

<button type="button" routerLink="/profile">Profile</button>

<router-outlet />

# register.component.html

<p>register works!</p>

<h2>Register</h2>

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

<input type="text" [(ngModel)]="user.name" placeholder="name" id="name" name="name" required />

<input type="email" [(ngModel)]="user.email" placeholder="email" name="email" id="email" required />

<input type="password" [(ngModel)]="user.password" placeholder="password" name="password" id="password" required />

<button type="submit">Register</button>

</form>

# register.component.ts

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

import { AuthSService } from '../services/auth.s.service'; import { Router } from '@angular/router';

@Component({ selector: 'app-register', standalone: false,

templateUrl: './register.component.html', styleUrl: './register.component.css'

})

export class RegisterComponent { user = {name:'', email:'', password:''};

constructor(private authService: AuthSService, private router: Router) {}

register(){

if (this.authService.register(this.user)) { alert('Registration Successful!');

this.router.navigate(['/login']);

}

}

}

# login.component.html

<h2>Login</h2>

<form (submit)="login()">

<input type="email" [(ngModel)]="email" placeholder="email" name="email" id="email" required />

<input type="password" [(ngModel)]="password" placeholder="password" id="password" name="password" required />

<button type="submit">Login</button>

</form>

# login.component.ts

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

import { AuthSService } from '../services/auth.s.service'; import { Router } from '@angular/router';

@Component({ selector: 'app-login', standalone: false,

templateUrl: './login.component.html', styleUrl: './login.component.css'

})

export class LoginComponent { email = '';

password = '';

constructor(private authService: AuthSService, private router: Router) {}

login() {

if (this.authService.login(this.email, this.password)) { alert('Login Successful!'); this.router.navigate(['/profile']);

}

else {

alert('Invalid Credentials!');

}

}

}

# profile.component.html

<h2>Profile</h2>

<p><strong>Name: </strong>{{ user?.name }}</p>

<p><strong>Email: </strong>{{ user?.email }}</p>

<button (click)="logout()">Logout</button>

# profile.component.ts

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

import { AuthSService } from '../services/auth.s.service'; import { Router } from '@angular/router';

@Component({

selector: 'app-profile', standalone: false,

templateUrl: './profile.component.html', styleUrl: './profile.component.css'

})

export class ProfileComponent { user: any;

constructor(private authService: AuthSService, private router: Router) { this.user = this.authService.getUser();

if (!this.user) { this.router.navigate(['/login']);

}

}

logout() { this.authService.logout();

}

}

# auth.s.service.ts

import { Injectable } from '@angular/core'; import { Router } from '@angular/router'; import { Component } from '@angular/core';

@Injectable({ providedIn: 'root'

})

export class AuthSService {

constructor(private router: Router) { } register(user:{name:string; email:string; password: string}) { localStorage.setItem("users", JSON.stringify(user));

return true;

}

login(email: string, password: string){

const storedUser = localStorage.getItem("users"); if (storedUser) {

const user = JSON.parse(storedUser);

if (user.email===email && user.password === password) { localStorage.setItem('loggedInUser', JSON.stringify(user)); return true;

}

}

return false;

}

getUser() {

const users:any = localStorage.getItem('loggedInUser'); if (users) {

return users ? JSON.parse(users) : [];

}

return null;

}

logout() { localStorage.removeItem('loggedInUser'); this.router.navigate(['/login']);

}

}

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Angular Installation:

**VS Terminal:**

npm install -g @angular/cli

ng --version

ng new angular --no-standalone

CSS - yes

SSR - yes

Engine API -No

cd angular

ng g c register

[ Enter y ]

ng g c login

ng g c profile

ng g s services/auth.s

(copy all the files)  
then after copy run this:

**VS Code Terimnal:**

ng serve