Angular Authentication Demo:

Code Indent Shortcut: Alt+Shift+F

Kill AutoCompile: Ctrl+C, (Y/N)

Run: ng serve --open

Steps:

1. Create new Application.

The first step is to initiate a new Angular project. The easiest way to do so is to use Angular CLI (Angular command line interface).

If you have not installed Angular CLI on your system yet, you first need to execute the following command to install the latest version:

npm install -g @angular/cli@latest

Now you can use the ng command to initiate a new Angular project:

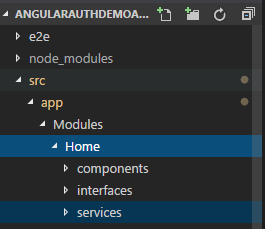
ng new AngularAuthDemoApp

you need to execute the command

npm install

in the project directory in order to make sure that the corresponding packages are updated.

1. Create Folder Structure in Application



1. Create a new component using below command:

ng g c modules/home/components/welcome -d

1. Add new file under app folder: routes.ts

And add below code:

import { Routes } from '@angular/router'

import { WelcomeComponent } from './modules/home/components/welcome/welcome.component';

export const appRoutes : Routes =

[

{path: 'welcome',component: WelcomeComponent},

{path: '', component: WelcomeComponent },

{path: '\*\*', component: WelcomeComponent }

];

1. Open app.module.ts

Add below two imports:

import { appRoutes } from './routes';

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

Also under under @NgModule inside imports add this line as followed:

RouterModule.forRoot(appRoutes),

1. Open app.component.ts

Add a constructor with this code:

constructor( private \_route: Router,){}

Don’t forget to add imports at the top:

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

1. Adding login component:

ng g c modules/home/components/login

and modify routes.ts file

import {LoginComponent} from './modules/home/components/login/login.component';

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

{path: '', component: LoginComponent },

{path: '\*\*', component: LoginComponent }

In app.module.ts add one more import for Router.

@NgModule({

declarations: [

AppComponent,

WelcomeComponent,

LoginComponent,

Router

// FormsModule

],

Add below code into login.component.ts

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

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

import { Router } from '../../../../../../node\_modules/@angular/router';

@Component({

selector: 'app-login',

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

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

})

export class LoginComponent implements OnInit {

constructor(

private fb:FormBuilder,

private authService: AuthService,

private router : Router

) { }

PageHeader: string= "";

form:FormGroup;

ngOnInit() {

this.PageHeader = "Login Page"

}

login() {

const val = this.form.value;

if (val.email && val.password) {

this.authService.login(val.email, val.password)

.subscribe(

() => {

console.log("User is logged in");

this.router.navigateByUrl('/');

}

);

}

}

1. AuthService Class

ng g s modules/home/services/AuthService --spec=false --flat=true

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

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

@Injectable()

export class AuthServiceService {

constructor(private http: HttpClient) { }

}

1. Creating interface:

ng g i modules/home/interfaces/User

1. Add node package for jsonwebtoken:

npm install jsonwebtoken

1. Install Express:

npm install express-jwt

References :

1. <https://code-maze.com/authentication-aspnetcore-jwt-1/>
2. <https://blog.angular-university.io/angular-jwt-authentication/>
3. <https://medium.com/@ryanchenkie_40935/angular-authentication-using-the-http-client-and-http-interceptors-2f9d1540eb8>
4. <https://www.toptal.com/web/cookie-free-authentication-with-json-web-tokens-an-example-in-laravel-and-angularjs>