Drive your Way Capstone Project By sanofar

Frontend-app

App.component.html

App.component.ts

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

@Component({
    selector: 'app-root',
    templateUrl: './app.component.html',
    styleUrls: ['./app.component.css']
})

export class AppComponent {
    title = 'frontend-app';
}
```

App.component.css

```
body{
    background: rgb(238,174,202);
    background: radial-gradient(circle, rgba(238,174,202,1) 0%, rgba(148,187,233,1) 100%);
height: 100vh;
padding: 0px;
margin: 0px;
}
.a{
    padding-top: 10px;
    color: crimson;
}
```

Login.service.ts

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

@Injectable({
    providedIn: 'root'
})
export class LoginService {
    baseURL:string ="http://localhost:9090/login";
    constructor(public http:HttpClient) { }

    signIn(login:any):Observable<string> {
        return this.http.post(this.baseURL+"/signIn",login,{responseType:"text"});
    }

    signUp(login:any):Observable<string> {
        return this.http.post(this.baseURL+"/signUp",login,{responseType:"text"});
    }
}
```

Login.ts

```
// map to entity class or json data.
export class Login {
    constructor(public emailid:string,
        public password:string,
        public typeOfUser:string){}
}
```

Product.service.ts

```
import { HttpClient } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';
import { Product } from './product';
@Injectable({
 providedIn: 'root'
export class ProductService {
 baseUrl:string ="http://localhost:9090/product"
  constructor(public http:HttpClient) { }
  storeProduct(product:any):Observable<string> {
   return this.http.post(this.baseUrl+"/storeProduct",product,{responseType:"text"});
  updateProduct(product:any):Observable<string> {
   return this.http.patch(this.baseUrl+"/updateProduct",product,{responseType:"text"});
  findAllProduct():Observable<Product[]> {
   return this.http.get<Product[]>(this.baseUrl+"/findAllProduct");
  findAllProductByPrice(price:number):Observable<Product[]> {
    return this.http.get<Product[]>(this.baseUrl+"/findProductByPrice/"+price);
  findAllProductById(pid:number):Observable<string> {
   return this.http.get(this.baseUrl+"/findAllProduct/"+pid,{responseType:"text"});
  deleteProductById(pid:number):Observable<string> {
    return this.http.delete(this.baseUrl+"/deleteProduct/"+pid,{responseType:"text"});
```

Login.component.html

```
<div class="signIn">
            <h2>Login Page</h2>
            <form [formGroup]="loginRef" (ngSubmit)="signIn()">
                <div class="form-container-t3">
                <label>EmailId</label>
                <input type="email" formControlName="emailid" placeholder="enter email"/><br/>
                <label>Password</label>
                <input type="password" formControlName="password" placeholder="enter</pre>
password"/><br/>
                <label>TypeOfUser</label>
                <input type="radio" id="admin1" name="typeOfUser" value="admin"</pre>
formControlName="typeOfUser"/>admin
                <input type="radio" id="user1" name="typeOfUser" value="user"</pre>
formControlName="typeOfUser"/>user<br/>
                <input type="submit" id="signIn12" class="btn" value="signIn"/>
                <input type="reset" class="btn" value="reset"/>
            </form>
            <span style="color:red">{{msg}}</span><br/>
            <a routerLink="/signUp">SignUp</a>
```

Login.component.ts

```
import { Component, OnInit } from '@angular/core';
import {FormGroup,FormControl} from '@angular/forms';
import { Router } from '@angular/router';
import { LoginService } from '../login.service';
@Component({
  selector: 'app-login',
  templateUrl: './login.component.html',
  styleUrls: ['./login.component.css']
export class LoginComponent implements OnInit {
  loginRef = new FormGroup({
    emailid:new FormControl(),
    password:new FormControl(),
   typeOfUser:new FormControl()
 msg:string=""
  constructor(public ls:LoginService,public router:Router) { }
  ngOnInit(): void {
  signIn(){
    let login = this.loginRef.value;
    console.log(login);
    this.ls.signIn(login).subscribe({
```

```
next:(result:any)=>{
    console.log(result);
    if(result=="Admin sucessfully login"){
        sessionStorage.setItem("userDetails",login.emailid);
        this.router.navigate(["adminHome"])
    }else if(result=="User successfully login"){
        sessionStorage.setItem("userDetails",login.emailid);
        this.router.navigate(["userHome"])
    }else {
        this.msg=result;
    }
    },
    error:(error:any)=>console.log(error),
    complete:()=>console.log("completed")
})
}
```

Signup.component.html

```
<div class="user">
   <div class="signUp">
        <h2>Account Create</h2>
        <form [formGroup]="loginRef" (ngSubmit)="signUp()">
            <label>EmailId</label>
            <input type="email" formControlName="emailid"/><br/>
            <label>Password</label>
            <input type="password" formControlName="password"/><br/>
            <label>TypeOfUser</label>
            <input type="radio" name="typeOfUser" value="admin" formControlName="typeOfUser"/>admin
            <input type="radio" name="typeOfUser" value="user"</pre>
formControlName="typeOfUser"/>user<br/>
            <input type="submit" class="btn"value="signUp"/>
            <input type="reset" class="btn" value="reset"/>
        <span style="color:red">{{msg}}</span><br/>
        <a routerLink="/login">login</a>
```

Signup.component.ts

```
import { Component, OnInit } from '@angular/core';
import {FormGroup,FormControl} from '@angular/forms';
import { LoginService } from '../login.service';
@Component({
   selector: 'app-signup',
   templateUrl: './signup.component.html',
   styleUrls: ['./signup.component.css']
})
```

```
export class SignupComponent implements OnInit {
  loginRef = new FormGroup({
    emailid:new FormControl(),
    password:new FormControl(),
    typeOfUser:new FormControl()
});
msg:string=""

constructor(public ls:LoginService) { }

ngOnInit(): void {
}

signUp() {
  let login = this.loginRef.value;
    this.ls.signUp(login).subscribe({
      next:(result:any)=>this.msg=result,
      error:(error:any)=>console.log(error),
      complete:()=>console.log("completed")
})
}
}
```

Admindashboard.component.html

Admindashboard.component.ts

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

@Component({
    selector: 'app-admindashboard',
    templateUrl: './admindashboard.component.html',
    styleUrls: ['./admindashboard.component.css']
})
export class AdmindashboardComponent implements OnInit {
    user:string ="";
    constructor(private router:Router) { }
```

```
ngOnInit(): void {
    let obj = sessionStorage.getItem("userDetails");
    if(obj!=null){
        this.user=obj;
    }
}

logout() {
    sessionStorage.removeItem("userDetails");
    this.router.navigate(["login"]);
}
```

-product.component.html

Add-product.component.ts

```
import { Component, OnInit } from '@angular/core';
import { FormGroup,FormControl} from '@angular/forms'
import { ProductService } from '../product.service';
@Component({
    selector: 'app-add-product',
    templateUrl: './add-product.component.html',
    styleUrls: ['./add-product.component.css']
})
export class AddProductComponent implements OnInit {

productRef = new FormGroup({
    pname:new FormControl(),
    price:new FormControl(),
    url:new FormControl()
})
storeMsg :string =""
    constructor(public ps:ProductService) { }

ngOnInit(): void {
```

```
storeProduct() {
  let product = this.productRef.value;
  this.ps.storeProduct(product).subscribe({
    next:(result:any)=>this.storeMsg=result,
    error:(error:any)=>console.log(error),
    complete:()=>console.log("completed")
  })
  this.productRef.reset();
}
```

Admin-product-retrieve.component.html

```
<h2>Add Product Details</h2>
<div *ngIf="flag">
        <h2>Update Product</h2>
        <form (ngSubmit)="updateDataFromDb()">
            <label>PId</label>
            <input type="number" name="pid" [(ngModel)]="pid" readonly/><br/>
            <label>Price</label>
            <input type="number" name="price" [(ngModel)]="price"/><br/>
            <label>URL</label>
            <input type="URL" name="url" [(ngModel)]="url"/><br/>
            <input type="submit" value="update data"/>
            <input type="reset" value="reset"/>
       </form>
<span *ngFor="let p of products">
    <img src={{p.url}} width="300px" height="300px"/>
    <span>{{p.pname}} {{p.price}}</span>
    <input type="button" value="delete" (click)="deleteProduct(p.pid)"/>
    <input type="button" value="update" (click)="updateProduct(p)"/>
```

Admin-product-retrieve.component.ts

```
import { Component, OnInit } from '@angular/core';
import { Product } from '../product';
import { ProductService } from '../product.service';

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

```
products:Array<Product>=[];
constructor(public ps:ProductService) { }
ngOnInit(): void {
 this.findAllProduct();
flag:boolean = false;
pid:number =0;
price:number =0;
url:string ="";
findAllProduct() {
  this.ps.findAllProduct().subscribe({
    next:(result:any)=>this.products=result,
    error:(error:any)=>console.log(error),
    complete:()=>console.log("completed")
deleteProduct(pid:number){
 this.ps.deleteProductById(pid).subscribe({
    next:(result:any)=>console.log(result),
    error:(error:any)=>console.log(error),
    complete:()=>{
        this.findAllProduct();
updateProduct(product:any){
   this.flag= true;
    this.pid=product.pid;
    this.price=product.price;
    this.url=product.url;
updateDataFromDb(){
 let product = {pid:this.pid,price:this.price,url:this.url};
 this.ps.updateProduct(product).subscribe({
    next:(result:any)=>console.log(result),
    error:(error:any)=>console.log(error),
    complete:()=>{
        this.findAllProduct();
  this.flag=false;
```

Backend-app Code

```
package com;
import org.springframework.boot.SpringApplication;
import\ or g. spring framework. boot. autoconfigure. Spring Boot Application;
import\ org. spring framework. boot. autoconfigure. domain. Entity Scan;
import\ org. spring framework. data. jpa. repository. config. Enable Jpa Repositories;
@SpringBootApplication(scanBasePackages = "com")
@EntityScan(basePackages = "com.onlineshop.bean")
@EnableJpaRepositories(basePackages = "com.onlineshop.repository")
public class MyAppApplication {
         public static void main(String[] args) {
                   SpringApplication.run(MyAppApplication.class, args);
                   System.out.println("Server running on port number 9090");
         }
}
Com.onlineshop.bean
Login.java
package com.onlineshop.bean;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.Id;
@Entity
public class Login {
@Id
```

```
private String emailid;
private String password;
@Column(name = "typeofuser")
private String typeOfUser;
public String getEmailid() {
         return emailid;
}
public void setEmailid(String emailid) {
         this.emailid = emailid;
}
public String getPassword() {
         return password;
}
public void setPassword(String password) {
         this.password = password;
}
public String getTypeOfUser() {
         return typeOfUser;
}
public void setTypeOfUser(String typeOfUser) {
         this.typeOfUser = typeOfUser;\\
@Override
public String toString() {
         return "Login [emailid=" + emailid + ", password=" + password + ", typeOfUser=" + typeOfUser + "]";
}
Product.java
```

package com.onlineshop.bean;

```
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
@Entity
public class Product {
@Id
@GeneratedValue(strategy = GenerationType.IDENTITY)
                                                                    // auto_generate
private int pid;
private String pname;
private float price;
private String url;
public int getPid() {
         return pid;
}
public void setPid(int pid) {
         this.pid = pid;
}
public String getPname() {
         return pname;
}
public void setPname(String pname) {
          this.pname = pname;
}
public float getPrice() {
          return price;
}
public void setPrice(float price) {
         this.price = price;
}
```

```
public String getUrl() {
        return url;
}

public void setUrl(String url) {
        this.url = url;
}

@Override

public String toString() {
        return "Product [pid=" + pid + ", pname=" + pname + ", price=" + price + ", url=" + url + "]";
}
}
```

Com.onlineshop.controller

LoginController.java

package com.onlineshop.controller;

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.MediaType;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.bind.annotation.RestController;
import com.onlineshop.bean.Login;
import com.onlineshop.service.LoginService;
```

@RestController

```
@RequestMapping("login")
@CrossOrigin
public class LoginController {
         @Autowired
         LoginService loginService;
         @PostMapping(value = "signIn", consumes = MediaType.APPLICATION\_JSON\_VALUE)
         public String signIn(@RequestBody Login login) {
                  System.out.println("I cam here");
                  return loginService.signIn(login);
         }
         @PostMapping(value = "signUp", consumes = MediaType.APPLICATION\_JSON\_VALUE)
         public String signUp(@RequestBody Login login) {
                  System.out.println(login);
                  return loginService.signUp(login);
         }
}
ProductController.java
package com.onlineshop.controller;
import java.util.List;
import\ org. spring framework. beans. factory. annotation. Autowired;
import\ org. spring framework. http. Media Type;
import org.springframework.web.bind.annotation.CrossOrigin;
```

```
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PatchMapping;
import\ org. spring framework. we b. bind. annotation. Path Variable;
import\ org. spring framework. we b. bind. annotation. PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import\ org. spring framework. we b. bind. annotation. Request Mapping;
import\ org. spring framework. we b. bind. annotation. Rest Controller;
import com.onlineshop.bean.Product;
import com.onlineshop.service.ProductService;
@RestController
@RequestMapping("product")
@CrossOrigin
public class ProductController {
         @Autowired
         ProductService productService;
         @PostMapping(value = "storeProduct",consumes = MediaType.APPLICATION_JSON_VALUE)
         public String storeProduct(@RequestBody Product product) {
                  return productService.storeProduct(product);
         }
         @PatchMapping(value = "updateProduct",consumes = MediaType.APPLICATION_JSON_VALUE)
         public String updateProduct(@RequestBody Product product) {
                  return productService.updateProduct(product);
         }
```

```
@GetMapping(value="findAllProduct",produces = MediaType.APPLICATION_JSON_VALUE)
         public List<Product> getAllProduct() {
                  return productService.getAllProducts();
         }
         @GetMapping(value="findProductByPrice/{price}",produces = MediaType.APPLICATION_JSON_VALUE)
         public List<Product> findProductByPrice(@PathVariable("price") float price) {
                  return productService.findProductByPrice(price);
         }
         @GetMapping(value="findAllProduct/{pid}")
         public String findProductById(@PathVariable("pid") int pid) {
                  return productService.findProductById(pid);
         }
         @DeleteMapping(value="deleteProduct/{pid}")
         public String deleteProductUsingId(@PathVariable("pid") int pid) {
                  return\ product Service. delete Product (pid);
         }
}
com.onlineshop.repository
LoginRepository.java
package com.onlineshop.repository;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;
import com.onlineshop.bean.Login;
@Repository
public interface LoginRepository extends JpaRepository < Login, String > {
```

```
ProductRepository.java
package com.onlineshop.repository;
import java.util.List;
import\ org. spring framework. data. jpa. repository. Jpa Repository;
import\ org. spring framework. data. jpa. repository. Query;
import org.springframework.data.repository.query.Param;
import\ org. spring framework. stereotype. Repository;
import com.onlineshop.bean.Product;
@Repository
public interface ProductRepository extends JpaRepository<Product, Integer>{
         //JPQL
         @Query("select p from Product p where p.price > :price")
         public List<Product> findProductByPrice(@Param("price") float price);
}
com.onlineshop.servic
LoginService.java
package com.onlineshop.service;
import java.util.Optional;
import\ org. spring framework. beans. factory. annotation. Autowired;
import org.springframework.stereotype.Service;
import com.onlineshop.bean.Login;
import com.onlineshop.repository.LoginRepository;
@Service
public class LoginService {
         @Autowired
         LoginRepository loginRepository;
```

```
public String signIn(Login login) {
                    Optional<Login> result = loginRepository.findById(login.getEmailid());
                    if(result.isPresent()) {
                                                  Login ll = result.get();
                                                  if (ll.getPassword().equals(login.getPassword())) \; \{\\
                                        if(login.getTypeOfUser().equals(ll.getTypeOfUser())~\&\&
login.getTypeOfUser().equals("admin")) {
                                                                      return "Admin sucessfully login";
                                        }else if(login.getTypeOfUser().equals(ll.getTypeOfUser()) &&
login.getTypeOfUser().equals("user")){
                                                                      return "User successfully login";
                                                            }else {
                                                                      return "Invalid details";
                                                            }
                                                  }else {
                                                            return "InValid password";
                                                  }
                    }else {
                              return "InValid emailId";
                    }
          }
          public String signUp(Login login) {
                    Optional<Login> result = loginRepository.findById(login.getEmailid());
                    if(result.isPresent()) {
                                                  return "Email Id alreay exists";
                    }else {
                              if(login.getTypeOfUser().equals("admin")) {
                                        return "You can't create admin account";
                              }else {
                                        loginRepository.save(login);
```

```
}
                   }
          }
}
ProductService
package com.onlineshop.service;
import java.util.List;
import java.util.Optional;
import\ org. spring framework. beans. factory. annotation. Autowired;
import\ org. spring framework. stereotype. Service;
import com.onlineshop.bean.Product;
import com.onlineshop.repository.ProductRepository;
@Service
public class ProductService {
          @Autowired
          ProductRepository productRepository;
          public String storeProduct(Product product) {
                   product Repository. save (product);\\
                   return "Product details stored";
          }
          public List<Product> getAllProducts() {
```

return productRepository.findAll();

return "Account created successfully";

```
}
public String findProductById(int pid) {
         Optional<Product> result = productRepository.findById(pid);
         if(result.isPresent()) {
                    Product p = result.get();
                    return p.toString();
          }else {
                    return "Product not present";
          }
}
public List<Product> findProductByPrice(float price){
         return productRepository.findProductByPrice(price);
}
public String deleteProduct(int pid) {
         Optional<Product> result = productRepository.findById(pid);
         if(result.isPresent()) \; \{ \;
                    Product p = result.get();
                    productRepository.delete(p);
                    return "Product deleted successfully";
          }else {
                    return "Product not present";
          }
}
public String updateProduct(Product product) {
         Optional < Product > result = product Repository.findById(product.getPid()); \\
         if(result.isPresent()) {
```

```
Product p = result.get();

p.setPrice(product.getPrice());

p.setUrl(product.getUrl());

productRepository.saveAndFlush(p);

return "Product updated successfully";

}else {

return "Product not present";
}
```

Selenium with test ng

```
package com.simplilearn;
import org.testng.annotations.Test;
      import org.testng.annotations.AfterClass;
      import org.testng.annotations.Test;
      import org.testng.AssertJUnit;
      import org.testng.annotations.Test;
      import org.testng.asserts.SoftAssert;
      import java.util.concurrent.TimeUnit;
      import org.openqa.selenium.By;
//import org.openqa.selenium.By.ById;
//import org.openga.selenium.By.ByXPath;
///import org.openqa.selenium.JavascriptExecutor;
      import org.openqa.selenium.NoSuchElementException;
      import org.openga.selenium.WebDriver;
      import org.openqa.selenium.WebElement;
      import org.openqa.selenium.chrome.ChromeDriver;
      import org.openqa.selenium.support.ui.FluentWait;
      import org.openqa.selenium.support.ui.Wait;
      import org.testng.annotations.AfterClass;
      import org.testng.annotations.AfterMethod;
     public class driver your way test {
            // Step 1: Initialize the webdriver
            WebDriver driver = null;
            SoftAssert soft = new SoftAssert();
            @Test
            public void initialization TO() {
                  // Step 2: Declare a path and set property for google
chrome driver
```

```
String path =
"C:\Users\Lenovo\\chromedriver win32\\chromedriver.exe";
                  System.setProperty("webdriver.chrome.driver", path);
                  driver = new ChromeDriver();
            }
            @Test(groups = "Chrome", dependsOnMethods = { "initialization TO"
})
            public void cross T1() {
                  System.out.println("Testcases Starting...");
                  System.out.println();
                  // starting chrome
                  driver.get("http://localhost:4200/login");
                  try {
                        Thread. sleep (5000);
                  } catch (InterruptedException e) {
                        e.printStackTrace();
                  WebElement
email=driver.findElement(By.xpath("/html/body/app-root/html/body/div/app-
login/html/body/div/div/form/div/input[1]"));
                  email.sendKeys("admin@gmail.com");
                  WebElement
password=driver.findElement(By.xpath("/html/body/app-root/html/body/div/app-
login/html/body/div/div/form/div/input[2]"));
                  password.sendKeys("admin@123");
                  WebElement admin=driver.findElement(By.id("admin1"));
                  admin.click();
                  WebElement signIn=driver.findElement(By.id("signIn12"));
                  signIn.submit();
                  try {
                        Thread. sleep (5000);
                  } catch (InterruptedException e) {
                        e.printStackTrace();
            }
            @Test(groups = "Chrome", dependsOnMethods = {"cross T1"})
            public void cross T2() {
                  try {
                        Thread. sleep (5000);
                  } catch (InterruptedException e) {
                        e.printStackTrace();
                  // Clicking Search Button
                  WebElement
addproduct11=driver.findElement(By.xpath("//*[@id=\"add1\"]"));
                  addproduct11.click();
```

```
WebElement pname=driver.findElement(By.id("pname11"));
                  pname.sendKeys("I10");
                  try {
                        Thread. sleep (3000);
                  } catch (InterruptedException e) {
                        e.printStackTrace();
                  WebElement price=driver.findElement(By.id("price11"));
                  price.sendKeys("500000");
                  try {
                        Thread. sleep (3000);
                  } catch (InterruptedException e) {
                        e.printStackTrace();
                  WebElement url=driver.findElement(By.id("url11"));
      url.sendKeys("https://upload.wikimedia.org/wikipedia/commons/thumb/4/44
/Hyundai i10 1.0 Intro %28III%29 %E2%80%93 f 03012021.jpg/640px-
Hyundai i10 1.0 Intro %28III%29 %E2%80%93 f 03012021.jpg");
                  WebElement store=driver.findElement(By.id("submit11"));
                  try {
                        Thread. sleep (5000);
                  } catch (InterruptedException e) {
                        e.printStackTrace();
                  store.submit();
            }
}
```