1. **Com.example.demo.PhaseThreeECommerceApplication.java**

package com.example.demo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class PhaseThreeECommerceApplication {

public static void main(String[] args) {

SpringApplication.run(PhaseThreeECommerceApplication.class, args);

}

}

1. **Com.example.demo.model.Product.java**

package com.example.demo.model;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

import org.springframework.transaction.annotation.EnableTransactionManagement;

@Entity

@Table(name = "prod\_table")

@EnableTransactionManagement

public class Product {

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

@Column(name = "productId")

private int id;

@Column(name = "productname")

private String productName;

@Column(name = "season")

private String season;

@Column(name = "brand")

private String brand;

@Column(name = "category")

private String category;

@Column(name = "price")

private int price;

@Column(name = "color")

private String color;

@Column(name = "createddate")

private String createdDate;

@Column(name = "discount")

private int discount;

@Column(name = "quantity")

private int quantity;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getproductName() {

return productName;

}

public void setproductName(String productName) {

this.productName = productName;

}

public String getseason() {

return season;

}

public void setseason(String season) {

this.season = season;

}

public String getbrand() {

return brand;

}

public void setBrand(String brand) {

this.brand = brand;

}

public String getcatagory() {

return category;

}

public void setcategory(String catagory) {

this.category = catagory;

}

public int getprice() {

return price;

}

public void setprice(int price) {

this.price = price;

}

public String getcolor() {

return color;

}

public void setcolor(String color) {

this.color = color;

}

public String getcreatedDate() {

return createdDate;

}

public void setcreatedDate(String createdDate) {

this.createdDate = createdDate;

}

public int getdiscount() {

return discount;

}

public void setdiscount(int discount) {

this.discount = discount;

}

public int getquantity() {

return quantity;

}

public void setquantity(int quantity) {

this.quantity = quantity;

}

}

1. **Com.example.demo.repository.ProductRepository.java**

package com.example.demo.repository;

import org.springframework.data.jpa.repository.Query;

import org.springframework.data.repository.CrudRepository;

import com.example.demo.model.Product;

import java.util.List;

public interface ProductRepository extends CrudRepository<Product, Integer> {

List<Product> findByColor(String color);

List<Product> findBySeason(String season);

List<Product> findByBrand(String brand);

List<Product> findByCategory(String catagory);

List<Product> findByPrice(Integer price);

List<Product> findByCreatedDate(String date);

@Query(value ="select \* from (select \* from prod\_table where prod\_table.createddate=?1 and prod\_table.catagory=?2)as prod , user\_table u, product\_order po where po.user=u.userID and po.prod = prod.productId",nativeQuery = true)

List<Object> findByDateandCatagory(String date,String catagory);

//List<Object> findByProductOrder();

}

1. **com.example.demo.controller.ProductController.java**

package com.example.demo.controller;

import java.util.List;

import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.web.bind.annotation.DeleteMapping;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.bind.annotation.PutMapping;

import org.springframework.web.bind.annotation.RequestBody;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.bind.annotation.RestController;

import com.example.demo.repository.ProductRepository;

import com.example.demo.model.Product;

@RestController

@RequestMapping("products")

public class ProductController {

@Autowired

ProductRepository productrepository;

@GetMapping("all")

public List<Product> getAllProducts()

{

List<Product> book=(List<Product>) productrepository.findAll();

return book;

}

@PostMapping("add")

public Product addProduct(@RequestBody Product product)

{

return productrepository.save(product);

}

@GetMapping("product/{id}")

public Optional<Product> getProductId(@PathVariable int id)

{

return productrepository.findById(id);

}

@GetMapping("product/color/{color}")

public List<Product> getProductColor(@PathVariable String color)

{

return productrepository.findByColor(color);

}

@GetMapping("product/price/{price}")

public List<Product> getProductPrice(@PathVariable Integer price)

{

return productrepository.findByPrice(price);

}

@GetMapping("product/category/{category}")

public List<Product> getProductCategory(@PathVariable String catagory)

{

return productrepository.findByCategory(catagory);

}

@GetMapping("product/brand/{brand}")

public List<Product> getProductBrand(@PathVariable String brand)

{

return productrepository.findByBrand(brand);

}

@GetMapping("product/season/{season}")

public List<Product> getProductSeason(@PathVariable String season)

{

return productrepository.findBySeason(season);

}

@GetMapping("product/date/{date}")

public List<Product> getProductDate(@PathVariable String date)

{

return productrepository.findByCreatedDate(date);

}

@GetMapping("product/userproduct")

public List<Object> getUserProductDetails(@RequestParam String date,@RequestParam String catagory)

{

return productrepository.findByDateandCatagory(date,catagory);

}

// update existing student

@PutMapping("update/{id}")

public Product updateProduct(@RequestBody Product product)

{

return productrepository.save(product);

}

// delete particular student from database

@DeleteMapping("delete/{id}")

public void deleteProduct(@PathVariable int id)

{

productrepository.deleteById(id);

}

@DeleteMapping("delete")

public void deleteAllProducts()

{

productrepository.deleteAll();

}

}

1. **com.example.demo.model.User.java**

package com.example.demo.model;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

import org.springframework.transaction.annotation.EnableTransactionManagement;

@Entity

@Table(name = "user\_table")

@EnableTransactionManagement

public class User {

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

@Column(name = "userid")

private int id;

@Column(name = "username")

private String userName;

@Column(name = "password")

private String password;

@Column(name = "email")

private String email;

@Column(name = "phnum")

private String phNum;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getuserName() {

return userName;

}

public void setusername(String userName) {

this.userName = userName;

}

public String getpassword() {

return password;

}

public void setpassword(String password) {

this.password = password;

}

public String getemail() {

return email;

}

public void setemail(String email) {

this.email = email;

}

public String getphnum() {

return phNum;

}

public void setphnum(String phNum) {

this.phNum = phNum;

}

}

1. **com.example.demo.repository.UserRespository.java**

package com.example.demo.repository;

import org.springframework.data.repository.CrudRepository;

import com.example.demo.model.User;

public interface UserRepository extends CrudRepository<User, Integer> {

}

1. **com.example.demo.controller.UserController.java**

package com.example.demo.controller;

import java.util.List;

import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PathVariable;

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 com.example.demo.model.User;

import com.example.demo.repository.UserRepository;

@RestController

@RequestMapping("users")

public class UserController {

@Autowired

UserRepository userrepository;

@GetMapping("all")

public List<User> getAllProducts()

{

List<User> user=(List<User>) userrepository.findAll();

return user;

}

@PostMapping("add")

public User addProduct(@RequestBody User product)

{

return userrepository.save(product);

}

@GetMapping("user/{id}")

public Optional<User> getProductId(@PathVariable int id)

{

return userrepository.findById(id);

}

}