**User.java**

package com.example.SportyShoes.entities;

import java.util.ArrayList;

import java.util.List;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.OneToMany;

import javax.persistence.Table;

import lombok.Data;

@Entity

@Data

@Table(name="user")

public class User {

@OneToMany(mappedBy = "user")

private List<Orders> orders=new ArrayList<>();

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

//@Column(name="id")

private int id;

@Column(name="email")

private String email;

@Column(name="name")

private String name;

private String password;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

}

**Orders.java**

**package** com.example.SportyShoes.entities;

**import** java.util.ArrayList;

**import** java.util.List;

**import** javax.persistence.Column;

**import** javax.persistence.Entity;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.JoinColumn;

**import** javax.persistence.ManyToMany;

**import** javax.persistence.ManyToOne;

**import** javax.persistence.Table;

**import** lombok.Data;

@Entity

@Data

@Table(name="orders")

**public** **class** Orders {

@ManyToOne(targetEntity = User.**class**)

@JoinColumn(name="user\_id")

**private** User user;

@ManyToMany(mappedBy = "orders")

**private** List<Product> product=**new** ArrayList<>();

**public** List<Product> getProduct() {

**return** product;

}

**public** **void** addProduct(Product product) {

**this**.product.add(product);

}

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

//@Column(name="order\_id")

**private** **int** order\_id;

**public** **int** getOrder\_id() {

**return** order\_id;

}

**public** **void** setOrder\_id(**int** order\_id) {

**this**.order\_id = order\_id;

}

**public** User getUser() {

**return** user;

}

**public** **void** setUser(User user) {

**this**.user = user;

}

}

**Product.java**

package com.example.SportyShoes.entities;

import java.util.ArrayList;

import java.util.List;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.JoinColumn;

import javax.persistence.JoinTable;

import javax.persistence.ManyToMany;

import javax.persistence.Table;

import lombok.Data;

@Entity

@Table(name="product")

@Data

public class Product {

@ManyToMany(targetEntity = Orders.class)

@JoinTable(

name="Product\_Order",

joinColumns = @JoinColumn(name="Product\_Id"),

inverseJoinColumns = @JoinColumn(name="Order\_Id")

)

private List<Orders> orders=new ArrayList<>();

public List<Orders> getOrder() {

return orders;

}

public void addOrder(Orders order) {

this.orders.add(order);

}

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

//@Column(name="product\_id")

private int product\_id;

@Column(name="product\_name")

private String product\_name;

private String product\_category;

public int getProduct\_id() {

return product\_id;

}

public void setProduct\_id(int product\_id) {

this.product\_id = product\_id;

}

public String getProduct\_name() {

return product\_name;

}

public void setProduct\_name(String product\_name) {

this.product\_name = product\_name;

}

public String getProduct\_category() {

return product\_category;

}

public void setProduct\_category(String product\_category) {

this.product\_category = product\_category;

}

}

**UserRepository.java**

package com.example.SportyShoes.repositories;

import org.springframework.data.repository.CrudRepository;

import com.example.SportyShoes.entities.User;

public interface UserRepository extends CrudRepository<User, Integer>{

public User findByName(String name);

}

**OrderRepository.java**

package com.example.SportyShoes.repositories;

import org.springframework.data.repository.CrudRepository;

import com.example.SportyShoes.entities.Orders;

public interface OrderRepository extends CrudRepository<Orders, Integer>{

}

**ProductRepository.java**

package com.example.SportyShoes.repositories;

import org.springframework.data.repository.CrudRepository;

import com.example.SportyShoes.entities.Product;

public interface ProductRepository extends CrudRepository<Product, Integer>{

}

**UserService.java**

package com.example.SportyShoes.services;

import java.util.Optional;

import javax.transaction.Transactional;

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

import org.springframework.stereotype.Service;

import com.example.SportyShoes.entities.User;

import com.example.SportyShoes.repositories.UserRepository;

@Service

@Transactional

public class UserService {

@Autowired

UserRepository userRepository;

public Iterable<User> getAllUsers()

{

return userRepository.findAll();

}

public User getUserByName(String name)

{

User user=userRepository.findByName(name);

if(user==null)

{

throw new RuntimeException("User Not Found!!");

}

return user;

}

public boolean confirmUserPassword(User user, String password)

{

if(user.getPassword().equals(password))

{

return true;

}

return false;

}

}

**LoginController.java**

package com.example.SportyShoes.controllers;

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

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

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

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

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

import com.example.SportyShoes.entities.User;

import com.example.SportyShoes.services.UserService;

@Controller

public class LoginController {

@Autowired

private UserService userService;

@RequestMapping(value="/", method=RequestMethod.GET)

public String welcomePage(ModelMap model)

{

return showview(model);

}

@RequestMapping(value="/login", method=RequestMethod.GET)

public String showview(ModelMap model)

{

model.addAttribute("message", "Welcome!!");

return ("login");

}

@RequestMapping(value="/login", method=RequestMethod.POST)

public String handleLogin(@RequestParam (value="username", required = true) String username, @RequestParam(value="password", required = true) String password, ModelMap model)

{

User user;

try {

user=userService.getUserByName(username);

}

catch(Exception ex)

{

model.addAttribute("message", "Error:User Not Found!!");

return ("login");

}

if(userService.confirmUserPassword(user, password))

{

model.addAttribute("message", "Login Success!!");

}

else

{

model.addAttribute("message", "Invalid Password. Please Try again!!");

}

return ("login");

}

}

**SportyShoesApplication.java**

package com.example.SportyShoes;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SportyShoesApplication {

public static void main(String[] args) {

SpringApplication.run(SportyShoesApplication.class, args);

}

}

**Login.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix =*"c"* %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>User Login</title>

<style>

**table,** **th,** **td** {

border: *1px solid black*;

}

</style>

</head>

<body>

<h2>Login</h2>

<form action=*"login"* method=*"post"*>

<label for=*"username"*>UserName:</label><br>

<input type=*"text"* id=*"username"* name=*"username"*><br>

<label for=*"password"*>Password:</label><br>

<input type=*"password"* id=*"password"* name=*"password"*><br>

<br>

<input type=*"submit"* value=*"Login"*>

</form>

</body>

</html>

**SportyShoes/pom.xml**

<?xml version="1.0" encoding="UTF-8"?>

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>2.6.7</version>

<relativePath /> <!-- lookup parent from repository -->

</parent>

<groupId>com.example</groupId>

<artifactId>SportyShoes</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>SportyShoes</name>

<description>E-commerce project for SportyShoes</description>

<properties>

<java.version>11</java.version>

</properties>

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>com.h2database</groupId>

<artifactId>h2</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>org.springframework.data</groupId>

<artifactId>spring-data-jdbc</artifactId>

<version>2.3.3</version>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>org.projectlombok</groupId>

<artifactId>lombok</artifactId>

<optional>true</optional>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

<configuration>

<excludes>

<exclude>

<groupId>org.projectlombok</groupId>

<artifactId>lombok</artifactId>

</exclude>

</excludes>

</configuration>

</plugin>

</plugins>

</build>

</project>