**MODEL**

**User.Java**

package com.sportyshoes.webproject.model;

import java.sql.Date;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="userdetails")

public class User {

@Id

private int uid;

private String uname;

private String upassword;

private Date dateofpurchase;

private double totalamount;

private String category;

public User() {

}

public User(int uid, String uname, String upassword, Date dateofpurchase, double totalamount, String category) {

super();

this.uid = uid;

this.uname = uname;

this.upassword = upassword;

this.dateofpurchase = dateofpurchase;

this.totalamount = totalamount;

this.category = category;

}

public int getUid() {

return uid;

}

public void setUid(int uid) {

this.uid = uid;

}

public String getUname() {

return uname;

}

public void setUname(String uname) {

this.uname = uname;

}

public String getUpassword() {

return upassword;

}

public void setUpassword(String upassword) {

this.upassword = upassword;

}

public Date getDateofpurchase() {

return dateofpurchase;

}

public void setDateofpurchase(Date dateofpurchase) {

this.dateofpurchase = dateofpurchase;

}

public double getTotalamount() {

return totalamount;

}

public void setTotalamount(double totalamount) {

this.totalamount = totalamount;

}

public String getCategory() {

return category;

}

public void setCategory(String category) {

this.category = category;

}

}

**Admin.java**

package com.sportyshoes.webproject.model;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="admindetails")

public class Admin {

@Id

private int adminid;

private String adminname;

private String adminpass;

public Admin() {

}

public Admin(int adminid, String adminname, String adminpass) {

super();

this.adminid = adminid;

this.adminname = adminname;

this.adminpass = adminpass;

}

public int getAdminid() {

return adminid;

}

public void setAdminid(int adminid) {

this.adminid = adminid;

}

public String getAdminname() {

return adminname;

}

public void setAdminname(String adminname) {

this.adminname = adminname;

}

public String getAdminpass() {

return adminpass;

}

public void setAdminpass(String adminpass) {

this.adminpass = adminpass;

}

}

**Product.java**

package com.sportyshoes.webproject.model;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="productdetails")

public class Product {

@Id

private int productid;

private String category;

private String shoename;

private int quantity;

private double price;

public Product() {

}

public Product(int productid, String category, String shoename, int quantity, double price) {

super();

this.productid = productid;

this.category = category;

this.shoename = shoename;

this.quantity = quantity;

this.price = price;

}

public int getProductid() {

return productid;

}

public void setProductid(int productid) {

this.productid = productid;

}

public String getCategory() {

return category;

}

public void setCategory(String category) {

this.category = category;

}

public String getShoename() {

return shoename;

}

public void setShoename(String shoename) {

this.shoename = shoename;

}

public int getQuantity() {

return quantity;

}

public void setQuantity(int quantity) {

this.quantity = quantity;

}

public double getPrice() {

return price;

}

public void setPrice(double price) {

this.price = price;

}

}

**Controller:**

**MainController.java**

package com.sportyshoes.webproject.controller;

import java.sql.Date;

import java.util.List;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

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

import org.springframework.boot.web.servlet.server.Session;

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 org.springframework.web.bind.annotation.ResponseBody;

import org.springframework.web.servlet.ModelAndView;

import com.sportyshoes.webproject.model.Admin;

import com.sportyshoes.webproject.model.Product;

import com.sportyshoes.webproject.model.User;

import com.sportyshoes.webproject.service.AdminDAO;

import com.sportyshoes.webproject.service.AdminRepository;

import com.sportyshoes.webproject.service.ProductDAO;

import com.sportyshoes.webproject.service.UserDAO;

@Controller

public class MainController {

@Autowired

AdminDAO adminDao;

@Autowired

UserDAO userDao;

@Autowired

ProductDAO productDao;

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

public String hello() {

long a = adminDao.count();

return "login";

}

@RequestMapping(path="/login")

public ModelAndView login(HttpServletRequest req,HttpServletResponse res) {

ModelAndView mv = new ModelAndView();

String Adminname = req.getParameter("Aname");

String Adminpass = req.getParameter("Apass");

Admin ad= adminDao.findByAdmin(Adminname);

if(ad.getAdminpass().equals(Adminpass) ) {

mv.addObject("admin", ad);

mv.setViewName("hello");

}

else {

mv.setViewName("login");

}

return mv;

}

@RequestMapping(path="admin/purchasereports")

public ModelAndView SortingUsers(HttpServletRequest req,HttpServletResponse res) {

List<String> cat = userDao.findDistinctCategories();

ModelAndView mv = new ModelAndView();

mv.addObject("categories", cat);

mv.setViewName("filter");

return mv;

}

@RequestMapping(path="admin/purchasereports/sortedResults")

public ModelAndView SortedUsers(HttpServletRequest req,HttpServletResponse res) {

String category = req.getParameter("category");

Date date = Date.valueOf(req.getParameter("date"));

ModelAndView mv = new ModelAndView();

List<User> list= userDao.findByCategoryAndDate(category, date);

if(!list.isEmpty()) {

mv.addObject("ReportList", list);

mv.setViewName("Report");

}

else {

mv.setViewName("NoReports");

}

return mv;

}

@RequestMapping(path="admin/allusers")

public ModelAndView listOfUsers(HttpServletRequest req,HttpServletResponse res) {

ModelAndView mv = new ModelAndView();

List<User> l = userDao.findAll();

mv.addObject("listOfUsers", l);

mv.setViewName("allusers");

return mv;

}

@RequestMapping(path="admin/passwordchange")

public ModelAndView passchange(HttpServletRequest req,HttpServletResponse res) {

ModelAndView mv = new ModelAndView();

mv.setViewName("passwordchange");

return mv;

}

// @ResponseBody ,@RequestParam String name

@RequestMapping(path="admin/passchangevalidation")

public ModelAndView passChangeValid(HttpServletRequest req,HttpServletResponse res) {

ModelAndView mv = new ModelAndView();

String oldp = req.getParameter("oldPassword");

String newp = req.getParameter("newPassword");

Admin adm = adminDao.findByPass(oldp);

if((newp.equals(oldp)) || (adm==null)) {

mv.setViewName("passwordChangeUnsuccess");

}

else {

adm.setAdminpass(newp);

adminDao.Update(adm);

mv.setViewName("passwordChangeSuccess");

}

return mv;

}

@RequestMapping(path="admin/manageproducts")

public ModelAndView manageProducts(HttpServletRequest req,HttpServletResponse res) {

ModelAndView mv = new ModelAndView();

long c = productDao.count();

List<Product> products = productDao.findAll();

mv.addObject("products", products);

mv.setViewName("manageproducts");

return mv;

}

@RequestMapping(path="admin/manageproduct/edit")

public String updateProducts(HttpServletRequest req,HttpServletResponse res, @RequestParam("id") String id) {

int id1 = Integer.parseInt(id);

Product prod = productDao.getById(id1);

return "editProduct";

}

@RequestMapping(path="admin/manageproduct/editsub")

public ModelAndView editprod(HttpServletRequest req,HttpServletResponse res) {

String id1 = req.getParameter("id");

int id = Integer.parseInt(id1);

String name =req.getParameter("name");

String category = req.getParameter("category");

String quant = req.getParameter("quantity");

int quantity = Integer.parseInt(quant);

double price = Integer.parseInt(req.getParameter("price"));

Product prod= productDao.getById(id);

prod.setCategory(category);

prod.setPrice(price);

prod.setQuantity(quantity);

prod.setShoename(name);

productDao.Update(prod);

ModelAndView mv = new ModelAndView();

mv.addObject("product",prod);

mv.setViewName("prodAddedSuccesfully");

return mv;

}

@RequestMapping(path="admin/manageproduct/delete")

public ModelAndView Deleteprod(HttpServletRequest req,HttpServletResponse res, @RequestParam("id") String id) {

int id1 = Integer.parseInt(id);

productDao.DeleteById(id1);

ModelAndView mv = new ModelAndView();

mv.setViewName("prodAddedSuccesfully");

return mv;

}

@RequestMapping(path="admin/manageproduct/add")

public ModelAndView AddProd(HttpServletRequest req,HttpServletResponse res) {

ModelAndView mv = new ModelAndView();

mv.setViewName("ProdAdd");

return mv;

}

@RequestMapping(path="admin/manageproduct/NewProduct")

public ModelAndView NewProd(HttpServletRequest req,HttpServletResponse res) {

int id = (int) productDao.count() + 1;

String name =req.getParameter("name");

String category = req.getParameter("category");

String quant = req.getParameter("quantity");

int quantity = Integer.parseInt(quant);

double price = Integer.parseInt(req.getParameter("price"));

Product prod = new Product();

prod.setProductid(id);

prod.setCategory(category);

prod.setPrice(price);

prod.setQuantity(quantity);

prod.setShoename(name);

productDao.Save(prod);

ModelAndView mv = new ModelAndView();

mv.setViewName("prodAddedSuccesfully");

return mv;

}

}

**Service:**

**AdminRepository.Java**

package com.sportyshoes.webproject.service;

import org.springframework.context.annotation.Primary;

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

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

import com.sportyshoes.webproject.model.Admin;

@Primary

public interface AdminRepository extends JpaRepository<Admin, Integer> {

@Query("select admin from Admin admin where admin.adminname=?1")

public Admin findByAdmin(String aname);

@Query("select admin from Admin admin where admin.adminpass=?1")

public Admin findByPass(String pass);

}

**AdminDao.java**

package com.sportyshoes.webproject.service;

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

import org.springframework.stereotype.Service;

import com.sportyshoes.webproject.model.Admin;

@Service

public class AdminDAO {

@Autowired

AdminRepository adminRepo;

public Admin findByAdmin(String aname) {

return(adminRepo.findByAdmin(aname));

}

public long count() {

return adminRepo.count();

}

public Admin findByPass(String pass) {

return adminRepo.findByPass(pass);

}

public Admin Update(Admin adm) {

return adminRepo.save(adm);

}

public Admin save(Admin adm) {

return adminRepo.save(adm);

}

}

**ProductRepository.java**

package com.sportyshoes.webproject.service;

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

import com.sportyshoes.webproject.model.Product;

public interface ProductRepository extends JpaRepository<Product, Integer> {

}

**ProductDAO**

package com.sportyshoes.webproject.service;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.sportyshoes.webproject.model.Product;

@Service

public class ProductDAO {

@Autowired

ProductRepository prodRepo;

public long count() {

return prodRepo.count();

}

@SuppressWarnings("deprecation")

public Product getById(int id) {

return prodRepo.getById(id);

}

public List<Product> findAll(){

return prodRepo.findAll();

}

public Product Save(Product prod) {

return prodRepo.save(prod);

}

public Product Update(Product prod) {

return prodRepo.save(prod);

}

public void Delete(Product prod) {

prodRepo.delete(prod);

}

public void DeleteById(int id) {

prodRepo.deleteById(id);

}

}

**UserRepository.java**

package com.sportyshoes.webproject.service;

import java.sql.Date;

import java.util.List;

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

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

import com.sportyshoes.webproject.model.User;

public interface UserRepository extends JpaRepository<User, Integer> {

@Query(value="select distinct category from productdetails", nativeQuery=true)

public List<String> findDistinctCategories();

@Query(value="SELECT \* FROM userdetails WHERE category LIKE (?1) AND dateofpurchase = (?2)", nativeQuery=true)

public List<User> findByCategoryAndDate(String Category, Date date);

}

**UserDAO.java**

package com.sportyshoes.webproject.service;

import java.sql.Date;

import java.util.ArrayList;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.sportyshoes.webproject.model.User;

@Service

public class UserDAO {

@Autowired

UserRepository repo;

public List<User> findAll() {

return repo.findAll();

}

public List<String> findDistinctCategories(){

return repo.findDistinctCategories();

}

public List<User> findByCategoryAndDate(String Category, Date date){

List<User> l=repo.findByCategoryAndDate(Category, date);

if(l !=null) {

return l;

}

else {

return new ArrayList<>();

}

}

}

**WebProjectApplication.java**

package com.sportyshoes.webproject;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class WebprojectApplication {

public static void main(String[] args) {

SpringApplication.run(WebprojectApplication.class, args);

}

}

**Application.properties**

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

spring.datasource.url=jdbc:mysql://localhost:3306/SportyShoes

spring.datasource.username= root

spring.datasource.password= 98765

spring.mvc.view.prefix=/WEB-INF/view/

spring.mvc.view.suffix=.jsp

**JSP**

**AllUsers.Jsp**

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

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

<%@ page import=*"java.util.List"* %>

<%@ page import= *"com.sportyshoes.webproject.model.\*"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<table border=*"1"*>

<% List<User> fp=(List<User>) request.getAttribute("listOfUsers");%>

<tr><th>Id</th><th>name</th><th>password</th><th>Date of Purchase</th><th>total Amount</th><th>Category</th></tr>

<%**for**(User f: fp) {

String Id = f.getUid() +"" ;

%>

<tr><td><%=Id %></td><td><%=f.getUname() %></td><td><%=f.getUpassword() %></td><td><%=f.getDateofpurchase() %></td><td><%=f.getTotalamount() %></td><td><%=f.getCategory() %></td></tr>

<%} %>

</body>

</html>

**EditProduct.Jsp**

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

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

<%@ page import=*"com.sportyshoes.webproject.model.\*"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form method=*POST* action=*"editsub"*>

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

category<input type=*"text"* name=*"category"*><br>

quantity<input type=*"text"* name=*"quantity"*><br>

price<input type=*"text"* name=*"price"*><br>

<% String id = request.getParameter("id");%>

<input type=*"hidden"* value=<%=id %> name=*"id"*>

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

</from>

</body>

</html>

**filter.Jsp**

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

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

<%@ page import=*"java.util.\*"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Filter products</title>

</head>

<body>

<form method=*POST* action=*purchasereports/sortedResults*>

<%List<String> categories = ((List<String>) request.getAttribute("categories"));%>

<label for=*"category"* >Choose a category:</label>

<select name= *"category"* id=*"category"*>

<% **for** (String category: categories){ %>

<option value=<%=category %>><%=category %></option>

<%} %>

</select>

<input type=*"date"* name=*"date"*>

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

</form>

</body>

</html>

**Hello.Jsp**

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

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

<%@ page import= *"com.sportyshoes.webproject.model.\*"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Admin Page</title>

</head>

<body>

<%Admin admin =(Admin) request.getAttribute("admin");

%>

Welcome <%=admin.getAdminname() %>

<form method=*POST* action=*admin/purchasereports* >

<input type=*"submit"* value=*"Purchase Reports"*>

</form>

<form method=*POST* action=*admin/manageproducts* >

<input type=*"submit"* value=*"Manage Products"*>

</form>

<form method=*POST* action=*admin/passwordchange*>

<input type=*"submit"* value=*"Change Password"*>

</form>

<form method=*POST* action=*admin/allusers*>

<input type=*"submit"* value=*"List All Users"*>

</form>

</body>

</html>

**login.Jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Login Page</title>

</head>

<body>

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

Username<input type=*"text"* name=*"Aname"*><br>

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

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

</form>

</body>

</html>

**manageproducts.Jsp**

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

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

<%@ page import=*"com.sportyshoes.webproject.model.\*"* %>

<%@ page import=*"java.util.\*"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Manage Products</title>

</head>

<body>

<table border=*"1"*>

<% List<Product> fp=(List<Product>) request.getAttribute("products");%>

<tr><th>Id</th><th>name</th><th>quantity</th><th>Price</th><th>Category</th><th>Edit</th><th>Delete</th></tr>

<%**for**(Product f: fp) {

String Id = f.getProductid() +"" ;

%>

<tr><td><%=Id %></td><td><%=f.getShoename() %></td><td><%=f.getQuantity() %></td><td><%=f.getPrice() %></td><td><%=f.getCategory() %></td><td><a href=*"*<%="manageproduct/edit?id="+Id%>*"*>Edit</a></td><td><a href=*"*<%="manageproduct/delete?id="+Id %>*"*>Delete</a></td></tr>

<%} %>

</table>

<a href=*"manageproduct/add"*>Click here to add a new product</a>

</body>

</html>

**noreports.Jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

No reports to display

<a href=*"/admin/purchasereports"*>Click here to go to the sorting page</a>

</body>

</html>

**passwordchange.Jsp**

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

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

<%@ page import= *"com.sportyshoes.webproject.model.\*"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form method=*POST* action=*"passchangevalidation"*>

New Password<input type=*"password"* name=*"newPassword"*><br>

Old Password<input type=*"password"* name=*"oldPassword"*><br>

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

</form>

</body>

</html>

**passwordChangeSuccess.Jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Password change success</title>

</head>

<body>

Successfully changed password!

</body>

</html>

**passwordChangeUnsuccess.Jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>password Change Unsuccessful</title>

</head>

<body>

Old password can't be the same as new password

</body>

</html>

**ProdAdd.Jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>New product</title>

</head>

<body>

<form method=*POST* action=*"NewProduct"*>

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

category<input type=*"text"* name=*"category"*><br>

quantity<input type=*"text"* name=*"quantity"*><br>

price<input type=*"text"* name=*"price"*><br>

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

</from>

</body>

</html>

**ProdAddedSuccesfully.Jsp**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Product Added Successfully</title>

</head>

<body>

Operation successful!

<a href=*"/admin/manageproducts"*>Click here to see all the products</a>

</body>

</html>

**Report.Jsp**

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

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

<%@ page import=*"com.sportyshoes.webproject.model.\*"* %>

<%@ page import=*"java.util.\*"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Reports</title>

</head>

<body>

<table border=*"1"*>

<% List<User> fp=(List<User>) request.getAttribute("ReportList");%>

<tr><th>Id</th><th>name</th><th>password</th><th>Date of Purchase</th><th>total Amount</th><th>Category</th></tr>

<%**for**(User f: fp) {

String Id = f.getUid() +"" ;

%>

<tr><td><%=Id %></td><td><%=f.getUname() %></td><td><%=f.getUpassword() %></td><td><%=f.getDateofpurchase() %></td><td><%=f.getTotalamount() %></td><td><%=f.getCategory() %></td></tr>

<%} %>

</table>

<a href=*"/admin/purchasereports"*>Click here to go back to the sorting page</a>

</body>

</html>

**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>2.7.1</version>

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

</parent>

<groupId>com.sportyshoes</groupId>

<artifactId>webproject</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>webproject</name>

<description>A website for admins of sportyshoes</description>

<properties>

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

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