EProduct.java

package com.ecommerce;

import java.math.BigDecimal;

import java.util.Date;

public class EProduct {

private long ID;

private String name;

private BigDecimal price;

private Date dateAdded;

public long getID() {return this.ID; }

public String getName() { return this.name;}

public BigDecimal getPrice() { return this.price;}

public Date getDateAdded() { return this.dateAdded;}

public void setID(long id) { this.ID = id;}

public void setName(String name) { this.name = name;}

public void setPrice(BigDecimal price) { this.price = price;}

public void setDateAdded(Date date) { this.dateAdded = date;}

}

EProductDAO.java

package com.ecommerce.dao;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.List;

import org.springframework.jdbc.core.JdbcTemplate;

import org.springframework.jdbc.core.RowMapper;

import com.ecommerce.EProduct;

public class EProductDAO {

JdbcTemplate template;

public void setTemplate(JdbcTemplate template) {

this.template = template;

}

// Business methods

public List<EProduct> getProducts() {

return template.query("select \* from eproduct", new RowMapper<EProduct>() {

public EProduct mapRow(ResultSet rs, int row) throws SQLException {

EProduct e = new EProduct();

e.setID(rs.getInt(1));

e.setName(rs.getString(2));

e.setPrice(rs.getBigDecimal(3));

e.setDateAdded(rs.getDate(4));

return e;

}

});

}

public void addProduct(String name, float price) {

String insertSQL = "insert into eproduct(name,price) values(?,?)";

template.update(insertSQL, new Object[] { name, price });

}

public void deleteProduct(int id) {

String deleteSQL = "delete from eproduct where id=?";

template.update(deleteSQL, new Object[] { id });

}

}

ProductController.java

package com.ecommerce.controller;

import java.util.List;

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

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

import org.springframework.web.bind.annotation.\*;

import com.ecommerce.EProduct;

import com.ecommerce.dao.EProductDAO;

@Controller

public class ProductController {

@Autowired

EProductDAO eproductDAO;

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

public String listProducts(ModelMap model) {

List<EProduct> listOfProducts = eproductDAO.getProducts();

model.addAttribute("list", listOfProducts);

return "listProducts"; // go to listProducts.jsp

}

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

public String addProduct(@RequestParam String name, @RequestParam float price) {

eproductDAO.addProduct(name, price);

return "addProductSuccess"; // go to addProductSuccess.jsp

}

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

public String deleteProduct(@RequestParam int id) {

eproductDAO.deleteProduct(id);

return "deleteProductSuccess"; // go to deleteProductSuccess.jsp

}

}

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 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com</groupId>

<artifactId>ecommerce</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>war</packaging>

<name>ecommerce Maven Webapp</name>

<properties>

<org.springframework.version>6.0.4</org.springframework.version>

<maven.compiler.source>1.8</maven.compiler.source>

<maven.compiler.target>1.8</maven.compiler.target>

</properties>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>3.8.1</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-core</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-expression</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-beans</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context-support</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-jdbc</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-orm</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-web</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-webmvc</artifactId>

<version>${org.springframework.version}</version>

</dependency>

<dependency>

<groupId>javassist</groupId>

<artifactId>javassist</artifactId>

<version>3.12.1.GA</version>

</dependency>

<dependency>

<groupId>taglibs</groupId>

<artifactId>standard</artifactId>

<version>1.1.2</version>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>commons-dbcp</groupId>

<artifactId>commons-dbcp</artifactId>

<version>1.4</version>

</dependency>

<!--

https://mvnrepository.com/artifact/jakarta.servlet.jsp/jakarta.servlet.jsp-api -->

<!--<dependency>

<groupId>jakarta.servlet</groupId>

<artifactId>jakarta.servlet-api</artifactId>

<version>6.0.0</version>

</dependency>-->

<!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>javax.servlet-api</artifactId>

<version>3.0.1</version>

<scope>provided</scope>

</dependency>

<!--

https://mvnrepository.com/artifact/jakarta.servlet.jsp.jstl/jakarta.servlet.jsp.jstl-api -->

<dependency>

<groupId>jakarta.servlet.jsp.jstl</groupId>

<artifactId>jakarta.servlet.jsp.jstl-api</artifactId>

<version>3.0.0</version>

</dependency>

<dependency>

<groupId>mysql</groupId>

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

<version>8.0.32</version>

</dependency>

<dependency>

<groupId>javax.persistence</groupId>

<artifactId>persistence-api</artifactId>

<version>1.0.2</version>

<scope>provided</scope>

</dependency>

</dependencies>

<build>

<finalName>ecommerce</finalName>

<pluginManagement><!-- lock down plugins versions to avoid using Maven

defaults (may be moved to parent pom) -->

<plugins>

<plugin>

<artifactId>maven-clean-plugin</artifactId>

<version>3.1.0</version>

</plugin>

<!-- see

http://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin\_bindings\_for\_war\_packaging -->

<plugin>

<artifactId>maven-resources-plugin</artifactId>

<version>3.0.2</version>

</plugin>

<plugin>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.8.0</version>

</plugin>

<plugin>

<artifactId>maven-surefire-plugin</artifactId>

<version>2.22.1</version>

</plugin>

<plugin>

<artifactId>maven-war-plugin</artifactId>

<version>3.2.2</version>

</plugin>

<plugin>

<artifactId>maven-install-plugin</artifactId>

<version>2.5.2</version>

</plugin>

<plugin>

<artifactId>maven-deploy-plugin</artifactId>

<version>2.8.2</version>

</plugin>

</plugins>

</pluginManagement>

</build>

</project>

Mainservlet-xml

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

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:aop="http://www.springframework.org/schema/aop"

xmlns:context="http://www.springframework.org/schema/context"

xmlns:jee="http://www.springframework.org/schema/jee"

xmlns:lang="http://www.springframework.org/schema/lang"

xmlns:p="http://www.springframework.org/schema/p"

xmlns:tx="http://www.springframework.org/schema/tx"

xmlns:util="http://www.springframework.org/schema/util"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-2.5.xsd

http://www.springframework.org/schema/aop

http://www.springframework.org/schema/aop/spring-aop-2.5.xsd

http://www.springframework.org/schema/context

http://www.springframework.org/schema/context/spring-context-2.5.xsd

http://www.springframework.org/schema/tx

http://www.springframework.org/schema/tx/spring-tx-2.5.xsd">

<bean id="jspViewResolver"

class="org.springframework.web.servlet.view.InternalResourceViewResolver">

<property name="viewClass"

value="org.springframework.web.servlet.view.JstlView"></property>

<property name="prefix" value="/WEB-INF/view/"></property>

<property name="suffix" value=".jsp"></property>

</bean>

<bean id="messageSource"

class="org.springframework.context.support.ReloadableResourceBundleMessageSource">

<property name="basename" value="classpath:messages"></property>

<property name="defaultEncoding" value="UTF-8"></property>

</bean>

<context:annotation-config />

<context:component-scan base-package="com.ecommerce" />

<context:component-scan

base-package="com.ecommerce.dao" />

<context:component-scan

base-package="com.ecommerce.controller" />

<bean id="dataSource"

class="org.apache.commons.dbcp.BasicDataSource" destroy-method="close"

p:driverClassName="${jdbc.driverClassName}"

p:url="${jdbc.databaseurl}" p:username="${jdbc.username}"

p:password="${jdbc.password}"></bean>

<bean id="ds"

class="org.springframework.jdbc.datasource.DriverManagerDataSource">

<property name="driverClassName"

value="com.mysql.jdbc.Driver"></property>

<property name="url"

value="jdbc:mysql://localhost:3306/ecommerce"></property>

<property name="username" value="root"></property>

<property name="password" value="Simplilearn"></property>

</bean>

<bean id="jt" class="org.springframework.jdbc.core.JdbcTemplate">

<property name="dataSource" ref="ds"></property>

</bean>

<bean id="dao" class="com.ecommerce.dao.EProductDAO">

<property name="template" ref="jt"></property>

</bean>

<tx:annotation-driven />

</beans>

AddProductSuccess.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

Product added successfuly!

DeleteProductSuccess.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

Product deleted successfuly!/html>

Index.jsp

<html>

<body>

<h2>Spring Application</h2>

<a href=*"listProducts"*>List Products</a>

<br><br>

<a href=*"add-product.html"*>ADD Products</a>

<a href=*"delete-product.html"*>DELETE Products</a>

</body>

</html>

ListProduct.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<%@ taglib uri=*"http://www.springframework.org/tags/form"* prefix=*"form"*%>

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

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>List Products</title>

</head>

<body>

<c:forEach var=*"product"* items=*"*${list}*"*>

${product.name}, ${product.price}, ${product.dateAdded}<br>

</c:forEach>

</body>

</html>

Add-product.jsp

<h3> ADD a new Product here</h3>

<form action=*"addProduct"* METHOD=*"POST"*>

NAME <input name=*"name"*> <br>

PRICE <input name=*"price"*><br><br>

<input type=*submit*>

</form>

Delete-product.jsp

<h3> DELETE a Product here</h3>

<form action=*"deleteProduct"* METHOD=*"POST"*>

ID <input name=*"id"*> <br><br>

<input type=*submit*>

</form>

Output:





