**Source code for UserManager :**

**index.jsp:**

<html>

<body>

<h2>Searching Ecommerce1 Products</h2>

<form action=*"productid"*>

<input type=*"number"* name=*"id"* placeholder=*"Enter id"*>

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

</form>

</body>

</html>

**update.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>

<h2>Enter details:</h2>

<form action=*"update"*>

<input type=*"number"* name=*"id"* placeholder=*"Enter product id"*><br>

<input type=*"text"* name=*"name"* placeholder=*"Enter product name"*><br>

<input type=*"number"* name=*"price"* placeholder=*"Enter product price"*><br>

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

</form>

</body>

</html>

**details.jsp:**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h3>Products Details Page</h3>

<c:set var=*"product"* value=*"*${obj }*"*></c:set>

Id: ${product.id } <br>

Name: ${product.name } <br>

Price: ${product.price } <br><br>

<a href=*"update.jsp"*>Click here to update a product</a> <br><br>

<a href=*"index.jsp"*>Click here go to home page</a>

</body>

</html>

**test-servlet.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:context=*"http://www.springframework.org/schema/context"*

xsi:schemaLocation=*"*

*http://www.springframework.org/schema/beans*

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

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

*http://www.springframework.org/schema/context/spring-context.xsd"*>

<context:annotation-config></context:annotation-config>

<!-- jsp output -->

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

<bean id=*"jspViewResolver"* class=*"org.springframework.web.servlet.view.InternalResourceViewResolver"*>

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

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

</bean>

<!-- database -->

<bean id=*"dataSource"* class=*"org.springframework.jdbc.datasource.DriverManagerDataSource"*>

<property name=*"driverClassName"* value=*"com.mysql.cj.jdbc.Driver"*></property>

<property name=*"url"* value=*"jdbc:mysql://localhost:3306/ecommerce1"*></property>

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

<property name=*"password"* value=*"Mohan@4635"*></property>

</bean>

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

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

</bean>

<bean id=*"dao"* class=*"com.dao.EProductDao"*></bean>

</beans>

**web.xml:**

<web-app>

<display-name>Archetype Created Web Application</display-name>

<servlet>

<servlet-name>test</servlet-name>

<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>test</servlet-name>

<url-pattern>/</url-pattern>

</servlet-mapping>

<context-param>

<param-name>contextConfigLocation</param-name>

<param-value>/WEB-INF/test-servlet.xml</param-value>

</context-param>

<listener>

<listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>

</listener>

</web-app>

**MainController.java:**

**package** com.controller;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.math.BigDecimal;

**import** java.text.ParseException;

**import** java.text.SimpleDateFormat;

**import** java.util.Date;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

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

**import** org.springframework.stereotype.Controller;

**import** org.springframework.ui.ModelMap;

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

**import** com.dao.EProductDao;

**import** com.entity.EProductEntity;

**import** org.apache.log4j.Logger;

@Controller

**public** **class** MainController {

@Autowired

EProductDao dao;

**private** Logger logger = Logger.*getLogger*(MainController.**class**);

@GetMapping("/productid")

**public** String getProduct(HttpServletRequest request,ModelMap map, HttpServletResponse response) {

**long** id=Long.*parseLong*(request.getParameter("id"));

**if**(id>0)

{

EProductEntity entity=dao.getProductById(id);

logger.info("This Is An Info Log Entry ......!");

logger.info(entity);

map.addAttribute("obj",entity);

**return** "details";

}

**else**

{

**try** {

**try** {

request.getRequestDispatcher("/index.jsp").include(request, response);

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.println("Oops!!Invalid Credentials:)");

} **catch** (ServletException e) {

e.printStackTrace();

}

} **catch** (IOException e) {

e.printStackTrace();

}

}

**return** **null**;

}

@GetMapping("/update")

**public** String updateProduct(HttpServletRequest request,ModelMap map) {

**long** id=Long.*parseLong*(request.getParameter("id"));

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

BigDecimal price = **new** BigDecimal(request.getParameter("price"));

{

EProductEntity entity= **new** EProductEntity();

entity.setId(id);

entity.setName(name);

entity.setPrice(price);

dao.updateProduct(entity);

map.addAttribute("obj",entity);

**return** "details";

}

}

}

**EProductDao.java:**

**package** com.dao;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.util.List;

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

**import** org.springframework.dao.DataAccessException;

**import** org.springframework.jdbc.core.JdbcTemplate;

**import** org.springframework.jdbc.core.ResultSetExtractor;

**import** org.springframework.jdbc.core.RowMapper;

**import** org.springframework.stereotype.Repository;

**import** com.entity.EProductEntity;

**public** **class** EProductDao {

@Autowired

JdbcTemplate jdbcTemplate;

**public** List<EProductEntity> getAllProducts() {

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

**public** EProductEntity mapRow(ResultSet rs, **int** rowNum) **throws** SQLException {

EProductEntity obj = **new** EProductEntity();

obj.setId(rs.getLong(1));

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

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

**return** obj;

}

});

}

**public** EProductEntity getProductById(**long** id) {

**return** jdbcTemplate.query("select \* from eproduct where id=" + id, **new** ResultSetExtractor<EProductEntity>() {

**public** EProductEntity extractData(ResultSet rs) **throws** SQLException, DataAccessException {

**if** (rs.next()) {

EProductEntity obj = **new** EProductEntity();

obj.setId(rs.getLong(1));

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

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

**return** obj;

}

**return** **null**;

}

});

}

**public** **void** updateProduct(EProductEntity obj) {

**if** (obj.getId() > 0) {

String sql = "update eproduct set name=?,price=? where id=?";

jdbcTemplate.update(sql, obj.getName(), obj.getPrice(), obj.getId());

} **else** {

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

jdbcTemplate.update(sql, obj.getName(), obj.getPrice());

}

}

}

**EproductEntity.java:**

**package** com.entity;

**import** java.math.BigDecimal;

**public** **class** EProductEntity {

**private** **long** id;

**private** String name;

**private** BigDecimal price;

**public** EProductEntity() {

}

**public** EProductEntity(String name, BigDecimal price) {

**super**();

**this**.name = name;

**this**.price = price;

}

**public** **long** getId() {

**return** id;

}

**public** **void** setId(**long** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** BigDecimal getPrice() {

**return** price;

}

**public** **void** setPrice(BigDecimal price) {

**this**.price = price;

}

@Override

**public** String toString() {

**return** "EProductEntity [id=" + id + ", name=" + name + ", price=" + price + "]";

}

}

**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>DemoSpring</groupId>

<artifactId>Product\_Update</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>war</packaging>

<name>Product\_Update Maven Webapp</name>

<!-- FIXME change it to the project's website -->

<url>http://www.example.com</url>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

<maven.compiler.source>1.7</maven.compiler.source>

<maven.compiler.target>1.7</maven.compiler.target>

</properties>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.11</version>

<scope>test</scope>

</dependency>

<!--spring context-->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>5.3.22</version>

</dependency>

<!--spring core-->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-core</artifactId>

<version>5.3.22</version>

</dependency>

<!--Spring beans-->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-beans</artifactId>

<version>5.3.22</version>

</dependency>

<!--spring web-->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-web</artifactId>

<version>5.3.22</version>

</dependency>

<!--spring webmvc-->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-webmvc</artifactId>

<version>5.3.22</version>

</dependency>

<!--spring jdbc-->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-jdbc</artifactId>

<version>5.3.22</version>

</dependency>

<!--mysql connector-->

<dependency>

<groupId>mysql</groupId>

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

<version>8.0.30</version>

</dependency>

<!--java servlet jstl-->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

<!--java servlet API-->

<dependency>

<groupId>javax.servlet</groupId>

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

<version>4.0.1</version>

<scope>provided</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/log4j/log4j -->

<dependency>

<groupId>log4j</groupId>

<artifactId>log4j</artifactId>

<version>1.2.17</version>

</dependency>

</dependencies>

<build>

<finalName>Product\_Update</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>

**Log4j.xml:**

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

<!DOCTYPE log4j:configuration SYSTEM

"http://logging.apache.org/log4j/1.2/apidocs/org/apache/log4j/xml/doc-files/log4j.dtd">

<log4j:configuration xmlns:log4j=*"http://jakarta.apache.org/log4j/"*>

<appender name=*"Appender1"* class=*"org.apache.log4j.ConsoleAppender"*>

<layout class=*"org.apache.log4j.PatternLayout"*>

<param name=*"ConversionPattern"* value=*"%-7p %d [%t] %c %x - %m%n"* />

</layout>

</appender>

<appender name=*"Appender2"* class=*"org.apache.log4j.FileAppender"*>

<param name=*"File"* value=*"./Product\_Update/logs/springmvc.log"* />

<layout class=*"org.apache.log4j.PatternLayout"*>

<param name=*"ConversionPattern"* value=*"%-7p %d [%t] %c %x - %m%n"* />

</layout>

</appender>

<root>

<level value=*"INFO"* />

<appender-ref ref=*"Appender1"* />

<appender-ref ref=*"Appender2"* />

</root>

</log4j:configuration>