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

<project xmlns=*"*[*http://maven.apache.org/POM/4.0.0*](http://maven.apache.org/POM/4.0.0)*"* xmlns:xsi=*"*[*http://www.w3.org/2001/XMLSchema-instance*](http://www.w3.org/2001/XMLSchema-instance)*"*

xsi:schemaLocation=*"*[*http://maven.apache.org/POM/4.0.0*](http://maven.apache.org/POM/4.0.0)[*http://maven.apache.org/xsd/maven-4.0.0.xsd*](http://maven.apache.org/xsd/maven-4.0.0.xsd)*"*>

<modelVersion>4.0.0</modelVersion>

<groupId>0</groupId>

<artifactId>AddProduct</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>war</packaging>

<name>AddProduct Maven Webapp</name>

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

<url>[http://www.example.com](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>

<!-- https://mvnrepository.com/artifact/javax.servlet/javax.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/org.hibernate/hibernate-core -->

<dependency>

<groupId>org.hibernate</groupId>

<artifactId>hibernate-core</artifactId>

<version>5.4.28.Final</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.ow2.asm/asm -->

<dependency>

<groupId>org.ow2.asm</groupId>

<artifactId>asm</artifactId>

<version>9.1</version>

</dependency>

<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->

<dependency>

<groupId>mysql</groupId>

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

<version>8.0.28</version>

</dependency>

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

<dependency>

<groupId>javax.persistence</groupId>

<artifactId>persistence-api</artifactId>

<version>1.0.2</version>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.transaction/jta -->

<dependency>

<groupId>javax.transaction</groupId>

<artifactId>jta</artifactId>

<version>1.1</version>

</dependency>

<!-- https://mvnrepository.com/artifact/com.sun.xml.bind/jaxb-osgi -->

<dependency>

<groupId>com.sun.xml.bind</groupId>

<artifactId>jaxb-osgi</artifactId>

<version>3.0.0</version>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.xml.bind/jaxb-api -->

<dependency>

<groupId>javax.xml.bind</groupId>

<artifactId>jaxb-api</artifactId>

<version>2.4.0-b180830.0359</version>

</dependency>

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

<dependency>

<groupId>cglib</groupId>

<artifactId>cglib</artifactId>

<version>3.3.0</version>

</dependency>

</dependencies>

<build>

<finalName>AddProduct</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>

<html>

<body>

<h2>Add a Product</h2>

<form action=*"/AddProduct/product"* method=*"post"*>

Name: <input type=*"text"* id=*"name"* placeholder=*"Name"* name=*"name"* required>

<br><br>

Color: <input type=*"text"* id=*"color"* placeholder=*"Color"* name=*"color"* required>

<br><br>

Price(enter a number): <input type=*"text"* id=*"price"* placeholder=*"Price"* name=*"price"* required> <br><br>

<button type=*"submit"*>Enter</button>

</form>

</body>

</html>

**import** java.io.IOException; **import** java.io.PrintWriter; **import** java.sql.Connection; **import** java.sql.DriverManager; **import** java.sql.ResultSet;

**import** java.sql.ResultSetMetaData;

**import** java.sql.Statement;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

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

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

/\*\*

\* Servlet implementation class AddProduct

\*/

**public class** AddProduct **extends** HttpServlet {

**private static final long *serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** AddProduct() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

**protected void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

// **TODO** Auto-generated method stub

database");

//get all the values from the form

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

response.getWriter().println("<h2>Added!</h2><br>"); response.getWriter().println("Added "+ color + " " + name +" to the

**double** priceval = 0;

//check if the input for price is valid

# try

{

priceval = Double.*parseDouble*(price);

}

//not valid so set it to hard coded value

**catch** (NumberFormatException e)

{

priceval = 500.00;

}

//add to database

# try

{

PrintWriter out = response.getWriter();

out.println("<br><br>"); out.println("<h3>Database</h3>"); out.println("<br>");

//create connection to server Class.*forName*("com.mysql.jdbc.Driver"); Connection conn =

DriverManager.*getConnection*("jdbc:mysql://localhost:3306/", "root", "Vipul@4567");

Statement st=conn.createStatement();

//select product database from before st.executeUpdate("use pets");

**int** n=st.executeUpdate("insert into pets.product(name,color,price)values('"+name+"','"+color+"','"+priceval+"')");

//sql query

ResultSet rs = st.executeQuery("select \* from pets.product");

ResultSetMetaData md = rs.getMetaData();

**int** cols = md.getColumnCount();

//print out product table

**while** (rs.next())

{

**for**(**int** i = 1 ; i <= cols; i++)

{

out.print(rs.getString(i) + " ");

}

out.println("<br><br>");

}

}

**catch**(Exception e)

{

System.***out***.print(e); e.printStackTrace();

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub doGet(request, response);

}

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

<web-app xmlns:xsi=*"*[*http://www.w3.org/2001/XMLSchema-instance*](http://www.w3.org/2001/XMLSchema-instance)*"* xmlns=*"*[*http://java.sun.com/xml/ns/javaee*](http://java.sun.com/xml/ns/javaee)*"* xsi:schemaLocation=*"*[*http://java.sun.com/xml/ns/javaee*](http://java.sun.com/xml/ns/javaee)[*http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd*](http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd)*"* id=*"WebApp\_ID"* version=*"2.5"*>

<display-name> HibernateConfig </display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

<servlet>

<description></description>

<display-name>AddProduct</display-name>

<servlet-name>AddProduct</servlet-name>

<servlet-class>AddProduct</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>AddProduct</servlet-name>

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

</servlet-mapping>

</web-app>

package com.example;

import org.hibernate.SessionFactory; import org.hibernate.boot.Metadata;

import org.hibernate.boot.MetadataSources;

import org.hibernate.boot.registry.StandardServiceRegistry; import org.hibernate.boot.registry.StandardServiceRegistryBuilder;

public class HibernateUtil {

private static final SessionFactory sessionFactory;

static {

try {

StandardServiceRegistry standardRegistry = new StandardServiceRegistryBuilder()

.configure("hibernate.cfg.xml").build();

Metadata metaData = new MetadataSources(standardRegistry).getMetadataBuilder().build(); sessionFactory = metaData.getSessionFactoryBuilder().build();

} catch (Throwable th) {

throw new ExceptionInInitializerError(th);

}

}

public static SessionFactory getSessionFactory() { return sessionFactory;

}