Adding a New Product in the Database

//index

<%@ 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>

<div align=*"center"*>

<h2>Add a New Product</h2>

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

Id: <input type=*"number"* id=*"id"* name=*"id"*

placeholder=*"Enter id here..."* required> <br /> <br />

Name:<input type=*"text"* id=*"name"* name=*"name"*

placeholder=*"Enter name here..."* required> <br /> <br />

price: <input type=*"text"* id=*"price"* name=*"price"*

placeholder=*"Enter number here..."* required> <br /> <br /> <input

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

</form>

</div>

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

<modelVersion>4.0.0</modelVersion>

<groupId>com</groupId>

<artifactId>Add-New-Product</artifactId>

<version>1.0-SNAPSHOT</version>

<name>Add-New-Product</name>

<properties>

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

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

</properties>

<dependencies>

<dependency>

<groupId>org.hibernate</groupId>

<artifactId>hibernate-core</artifactId>

<version>5.4.30.Final</version>

</dependency>

</dependencies>

<build>

<sourceDirectory>src</sourceDirectory>

<plugins>

<plugin>

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

<version>3.8.0</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

</plugins>

</build>

</project>

//HibernateUtil.java

**package** com.Product;

**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.config.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***;

}

}

//Product.java

**package** com.Product;

**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.SQLException;

**import** java.sql.Statement;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

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

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

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

/\*\*

\* Servlet implementation class Product

\*/

@WebServlet("/Product")

**public** **class** Product **extends** HttpServlet {

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

/\*\*

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

\*/

**public** Product() {

**super**();

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

}

/\*\*

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

\*/

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

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

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

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

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

PrintWriter out = response.getWriter();

out.println("<html><body>");

out.println("<h2>Adding Product Successful</h2><br/>");

out.println("Added "+color+" "+name+" to the database.");

**float** price\_cost = 0;

**int** id\_int = 0;

**try** {

price\_cost = (**float**) Double.*parseDouble*(price);

id\_int = Integer.*parseInt*(id);

Class.*forName*("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/Product","root","Suru632kulA#");

Statement st = con.createStatement();

st.executeUpdate("use products");

**int** res = st.executeUpdate("insert into product.product\_details(id,name,price)values('"+id\_int+"','"+name+"','"+price+"')");

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

ResultSetMetaData md = rs.getMetaData();

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

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

// out.println("<div align='center'>"+"After adding a new product to Database" + "<br>"+"</div>");

out.println("<div align='center' style='margin-top:-50%'>"+"<table border=1 width=50% height=50%>");

out.println("<tr><th>Product Id</th><th>Product Name</th><th><th>Product Price</th><tr>");

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

{

out.println("<tr>");

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

{

out.print("<td>"+rs.getString(i) +"</td>");

}

out.println("</tr>");

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

}

out.println("</table>"+"</div>");

out.println("</html></body>");

st.close();

con.close();

}

**catch**(NumberFormatException e) {

price\_cost = (**float**) 0.00;

}

**catch**(ClassNotFoundException e) {

out.println(e);

} **catch** (SQLException e) {

out.println(e);

}

}

/\*\*

\* **@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);

}

}

//Hibernate.config.xml

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

<!DOCTYPE hibernate-configuration PUBLIC

"-//Hibernate/Hibernate Configuration DTD 3.0//EN"

"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>

<session-factory>

<property name=*"hibernate.connection.driver\_class"*>com.mysql.cj.jdbc.Driver</property>

<property name=*"hibernate.connection.url"*>jdbc:mysql://localhost:3306/Product</property>

<property name=*"hibernate.connection.username"*>root</property>

<property name=*"hibernate.connection.password"*>Suru632kulA#</property>

<property name=*"hibernate.dialect"*>org.hibernate.dialect,MySQL55Dialect</property>

<property name=*"hibernate.show\_sql"*>true</property>

</session-factory>

</hibernate-configuration>