## Adding a New Product in the Database Source Code

## 

## import java.io.IOException;

## 

## import jakarta.servlet.annotation.WebServlet;

## import jakarta.servlet.http.HttpServlet;

## import jakarta.servlet.http.HttpServletRequest;

## import jakarta.servlet.http.HttpServletResponse;

## 

## import org.hibernate.Session;

## import org.hibernate.SessionFactory;

## import org.hibernate.Transaction;

## 

## import com.example.model.Product;

## 

## @WebServlet("/addProduct")

## public class AddProductServlet extends HttpServlet {

## /\*\*

## \*

## \*/

## private static final long serialVersionUID = 1L;

## 

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

## // Retrieve form data

## int productId = Integer.parseInt(request.getParameter("productId"));

## String productName = request.getParameter("productName");

## double productPrice = Double.parseDouble(request.getParameter("productPrice"));

## 

## // Create product object

## Product product = new Product();

## product.setId(productId);

## product.setName(productName);

## product.setPrice(productPrice);

## 

## 

## org.hibernate.cfg.Configuration configuration = new org.hibernate.cfg.Configuration().configure();

## try (SessionFactory factory = configuration.buildSessionFactory(); Session session = factory.openSession()) {

## Transaction transaction = session.beginTransaction();

## System.out.println(transaction);

## // Save the product

## session.save(product);

## 

## // Commit the transaction

## transaction.commit();

## } catch (Exception e) {

## e.printStackTrace();

## }

## 

## // Redirect to a success page

## response.sendRedirect("success.jsp");

## }

## 

## // Additional methods as needed

## }

## 

## 

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

## <html>

## <head>

## <title>Add Product Form</title>

## </head>

## <body>

## <form action="addProduct" method="post">

## 

## <label for="productName">Product Id:</label>

## <input type="number" id="productId" name="productId" required><br>

## 

## <label for="productName">Product Name:</label>

## <input type="text" id="productName" name="productName" required><br>

## 

## <label for="productPrice">Product Price:</label>

## <input type="number" id="productPrice" name="productPrice" required><br>

## 

## <input type="submit" value="Add Product">

## </form>

## </body>

## </html>

## 

## 

## <!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD 3.0//EN"

## "http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">

## <hibernate-configuration>

## 

## <session-factory>

## <!-- JDBC Database connection settings -->

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

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

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

## <property name="hibernate.connection.password">1234</property>

## 

## <!-- JDBC connection pool settings -->

## <property name="hibernate.c3p0.min\_size">5</property>

## <property name="hibernate.c3p0.max\_size">20</property>

## <property name="hibernate.c3p0.timeout">300</property>

## <property name="hibernate.c3p0.max\_statements">50</property>

## <property name="hibernate.c3p0.idle\_test\_period">3000</property>

## 

## <!-- Specify dialect -->

## <property name="hibernate.dialect">org.hibernate.dialect.MySQL5Dialect</property>

## 

## <!-- Echo all executed SQL to stdout -->

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

## 

## <!-- Drop and re-create the database schema on startup -->

## <property name="hibernate.hbm2ddl.auto">create</property>

## 

## <!-- Mention annotated class -->

## <mapping class="com.example.model.Product"/>

## </session-factory>

## 

## </hibernate-configuration>

## 

## 

## package com.example.model;

## 

## import javax.persistence.Entity;

## import javax.persistence.Id;

## 

## @Entity

## public class Product {

## @Id

## private int id;

## private String name;

## private double price;

## 

## // Constructors (if needed)

## public Product() {

## }

## 

## public Product(int id, String name, double price) {

## this.id = id;

## this.name = name;

## this.price = price;

## }

## 

## // Getters and setters

## public int getId() {

## return id;

## }

## 

## public void setId(int id) {

## this.id = id;

## }

## 

## public String getName() {

## return name;

## }

## 

## public void setName(String name) {

## this.name = name;

## }

## 

## public double getPrice() {

## return price;

## }

## 

## public void setPrice(double price) {

## this.price = price;

## }

## }

## 

## 

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

## <html>

## <head>

## <title>Success</title>

## </head>

## <body>

## <h2>Product added successfully!</h2>

## <!-- Add any additional content or links as needed -->

## </body>

## </html>