**Adding a New Product in the Database**

**Html Code**

<!DOCTYPE html>

<html>

<head>

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

<title>Adding Product Details</title>

</head>

<body>

<h2>Adding Product to the Database using Hibernet</h2>

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

<label>Product ID</label>

<input type=*"text"* name=*"id"*>

<label>Product Name</label>

<input type=*"text"* name=*"name"*>

<label>Product Price</label>

<input type=*"text"* name=*"price"*>

<input type=*"submit"* value=*"Store Product"*>

<input type=*"reset"* value=*"Reset"*><br/>

</form>

<br/>

</body>

</html>

**Bean Class Code**

**package** com;

**import** javax.persistence.Entity;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

@Entity

@Table(name="product")

**public** **class** Product {

@Id

**private** **int** id;

**private** String name;

**private** **float** price;

**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** **float** getPrice() {

**return** price;

}

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

**this**.price = price;

}

@Override

**public** String toString() {

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

}

}

**Dao Class Code**

**package** com.Dao;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** com.Product;

**import** java.util.\*;

**import** javax.persistence.TypedQuery;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.Transaction;

**import** org.hibernate.cfg.Configuration;

**import** java.sql.\*;

**public** **class** ProductDao

{

**public** **int** storeProduct(Product product)

{

**try**

{

Configuration con=**new** Configuration();

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

SessionFactory sf=con.buildSessionFactory();

Session session=sf.openSession();

Transaction tran=session.getTransaction();

tran.begin();

session.save(product);

tran.commit();

**return** 1;

}

**catch**(Exception e)

{

System.***out***.println(e);

**return** 0;

}

}

}

**Service Class Code**

**package** com.service;

**import** java.util.\*;

**import** java.util.List;

**import** com.Product;

**import** com.Dao.ProductDao;

**public** **class** ProductService {

ProductDao ed = **new** ProductDao();

**public** String storeProduct(Product product) {

**if**(product.getPrice()<1000) {

**return** "Product Price must be > 1000";

}**else** **if**(ed.storeProduct(product)>0) {

**return** "Record inserted successfully";

}**else** {

**return** "Record didn't insert";

}

}

}

**Servlet Code**

**package** com.main;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

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

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

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

**import** com.Product;

**import** com.Dao.ProductDao;

**import** com.service.ProductService;

/\*\*

\* Servlet implementation class InsertController

\*/

**public** **class** InsertController **extends** HttpServlet {

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

/\*\*

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

\*/

**public** InsertController() {

**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

//response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* **@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);

PrintWriter out=response.getWriter();

response.setContentType("text/html");

**int** id=Integer.*parseInt*(request.getParameter("id"));

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

**float** price=Float.*parseFloat*(request.getParameter("price"));

Product pp=**new** Product();

pp.setId(id);

pp.setName(name);

pp.setPrice(price);

ProductService ps=**new** ProductService();

String result=ps.storeProduct(pp);

out.println(result);

RequestDispatcher rd1=request.getRequestDispatcher("insert.html");

rd1.include(request,response);

}

}

**Pom.xml File**

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

<modelVersion>4.0.0</modelVersion>

<groupId>InsertWithHibernet</groupId>

<artifactId>InsertWithHibernet</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>war</packaging>

<build>

<plugins>

<plugin>

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

<version>3.8.1</version>

<configuration>

<release>11</release>

</configuration>

</plugin>

<plugin>

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

<version>3.2.3</version>

</plugin>

</plugins>

</build>

<dependencies>

<dependency>

<groupId>mysql</groupId>

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

<version>8.0.16</version>

</dependency>

<dependency>

<groupId>org.hibernate</groupId>

<artifactId>hibernate-core</artifactId>

<version>5.5.6.Final</version>

</dependency>

</dependencies>

</project>

**Hibernet.cfg.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.password"*>1204@Koushika</property>

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

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

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

<mapping class=*"com.Product"*></mapping>

</session-factory>

</hibernate-configuration>