**Adding a New Product in the Database**

**CODE:**

**Index.html:**

<!DOCTYPE html>

<html>

<head>

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

<title>product details</title>

</head>

<body>

<h2>Query page</h2>

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

<label>product id</label>

<input type=*"text"* name=*"pid"*><br/>

<label>Product name</label>

<input type =*"text"* name=*"pname"*><br/>

<label>Product price</label>

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

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

</form>

</body>

</html>

**ProductController:**

**package** com.controller;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

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

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

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

**import** com.bean.Products;

**import** com.service.ProductService;

/\*\*

\* Servlet implementation class ProductController

\*/

**public** **class** ProductController **extends** HttpServlet {

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

/\*\*

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

\*/

**public** ProductController() {

**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 {

PrintWriter pw=response.getWriter();

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

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

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

Products pro=**new** Products();

pro.setPid(pid);

pro.setPname(pname);

pro.setPrice(price);

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

String result=ps.storeProducts(pro);

pw.println(result);

}

}

**Products:**

**package** com.bean;

**import** javax.persistence.Entity;

**import** javax.persistence.Id;

@Entity

**public** **class** Products {

@Id //pk

**private** **int** pid;

**private** String pname;

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

**public** **int** getPid() {

**return** pid;

}

**public** **void** setPid(**int** pid) {

**this**.pid = pid;

}

**public** String getPname() {

**return** pname;

}

**public** **void** setPname(String pname) {

**this**.pname = pname;

}

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

**return** price;

}

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

**this**.price = price;

}

@Override

**public** String toString() {

**return** "Product [pid=" + pid + ", pname=" + pname + ", price=" + price + "]";

}

}

**ProductService:**

**package** com.service;

**import** com.bean.Products;

**import** com.dao.ProductDao;

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

ProductDao pd=**new** ProductDao();

**public** String storeProducts(Products pro) {

**if**(pd.storeProducts(pro)>0) {

**return** "record is inserted..!";

}**else** {

**return** "record not inserted..!";

}

}

}

**ProductDao:**

package com.dao;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import org.hibernate.cfg.Configuration;

import com.bean.Products;

public class ProductDao {

public int storeProducts(Products pro) {

try {

Configuration con = new Configuration();

con.configure("hibernate.cfg.xml"); // load the xml file

SessionFactory sf = con.buildSessionFactory(); // Connection con;

Session session = sf.openSession(); // Statement or PreparedStatement

Transaction tran = session.getTransaction();

tran.begin();

session.save(pro); // insert query

tran.commit();

return 1;

}catch(Exception e) {

System.out.println("duplicatet pid...");

System.out.println(e);

return 0;

}

}

}

**Hibernate.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"*>sarasowmi</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.bean.Products"*/>

</session-factory>

</hibernate-configuration>

**Web.xml:**

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

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

<display-name>ServletWithHibernate</display-name>

<welcome-file-list>

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

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

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

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

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

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

</welcome-file-list>

<servlet>

<description></description>

<display-name>ProductController</display-name>

<servlet-name>ProductController</servlet-name>

<servlet-class>com.controller.ProductController</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>ProductController</servlet-name>

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

</servlet-mapping>

</web-app>

**Pom.xml:**

<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>ServletWithHibernate</groupId>

<artifactId>ServletWithHibernate</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>