**Adding a New Product in the Database**

**SourceCode**

**index.jsp**

<%@ 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>

<h3>Add Product</h3>

${msg }

<form method=*"post"* action=*"*${pageContext.request.contextPath }*/product"*>

<table cellpadding=*"2"* cellspacing=*"2"*>

<tr>

<td>Name</td>

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

</tr>

<tr>

<td>Price</td>

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

</tr>

<tr>

<td>Status</td>

<td><input type=*"checkbox"* name=*"status"*></td>

</tr>

<tr>

<td>&nbsp;</td>

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

</tr>

</table>

</form>

</body>

</html>

**Product.java**

package com.demo.entities;

import java.io.Serializable;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name = "product")

public class Product implements Serializable{

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private int id;

private String name;

private int price;

boolean status;

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 int getPrice() {

return price;

}

public void setPrice(int price) {

this.price = price;

}

public boolean isStatus() {

return status;

}

public void setStatus(boolean status) {

this.status = status;

}

**}**

**ProductModel.java**

package com.demo.models;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import com.demo.entities.Product;

public class ProductModel {

protected SessionFactory sessionFactory = HibernateUtil.getSessionFactory();

public boolean create(Product product) {

boolean result = true;

Session session = null;

Transaction transaction = null;

try {

session = sessionFactory.openSession();

transaction = session.beginTransaction();

session.save(product);

transaction.commit();

} catch (Exception e) {

if (transaction != null) {

transaction.rollback();

}

result = false;

} finally {

session.close();

}

return result;

}

}

**ProductServlet.java**

package com.demo.servlets;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import com.demo.entities.Product;

import com.demo.models.ProductModel;

/\*\*

\* Servlet implementation class ProductServlet

\*/

@WebServlet("/ProductServlet")

public class ProductServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public ProductServlet() {

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

request.getRequestDispatcher("product/index.jsp").forward(request, response);

}

/\*\*

\* @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);

ProductModel productModel = new ProductModel();

Product product = new Product();

product.setName(request.getParameter("name"));

product.setPrice(Integer.parseInt(request.getParameter("price")));

boolean status = request.getParameter("status") != null;

product.setStatus(status);

if (productModel.create(product)) {

request.setAttribute("msg", "Successful");

} else {

request.setAttribute("msg", "Failed");

}

request.getRequestDispatcher("product/index.jsp").forward(request, response);

}

}

**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.jdbc.Driver</property>

<property name=*"hibernate.connection.password"*>Root@1999</property>

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

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

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

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

</session-factory>

</hibernate-configuration>

**HibernateUtil.java**

package com.demo.models;

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;

}

}