***Class 1 Code***

package com.simplilearn.entity;

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Product {

@Id

private int productId;

private String productName;

public Product(int productId, String productName) {

super();

this.productId = productId;

this.productName = productName;

}

public Product() {

super();

}

public int getProductId() {

return productId;

}

public void setProductId(int productId) {

this.productId = productId;

}

public String getProductName() {

return productName;

}

public void setProductName(String productName) {

this.productName = productName;

}

@Override

public String toString() {

return "Product [productId=" + productId + ", productName=" + productName + "]";

}

}

***Servlet Code for Product Insert***

package com.simplilearn.servlet;

import java.io.IOException;

import java.util.HashMap;

import java.util.Map;

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 org.hibernate.Session;

import org.hibernate.Transaction;

import com.simplilearn.entity.Product;

import com.simplilearn.util.HibernateUtility;

/\*\*

\* Servlet implementation class ProductInsert

\*/

@WebServlet("/productInsert")

public class ProductInsert extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public ProductInsert() {

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 {

Map<String, String> dbMessages = new HashMap<String, String>();

Session session = HibernateUtility.getSession();

Transaction tx = session.beginTransaction();

Product p1 = new Product(Integer.parseInt(request.getParameter("productId")), request.getParameter("productName"));

session.save(p1);

tx.commit();

dbMessages.put("success", "Product inserted");

request.setAttribute("dbMessages", dbMessages);

request.getRequestDispatcher("productform.jsp").forward(request,response);

}

}

***Servlet Code for Product Validation***

***package com.simplilearn.servlet;***

***import java.io.IOException;***

***import java.io.PrintWriter;***

***import java.util.HashMap;***

***import java.util.List;***

***import java.util.Map;***

***import javax.servlet.RequestDispatcher;***

***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 org.hibernate.Session;***

***import org.hibernate.SessionFactory;***

***import org.hibernate.Transaction;***

***import com.simplilearn.entity.Product;***

***import com.simplilearn.util.HibernateUtility;***

***/\*\****

***\* Servlet implementation class ProductValidation***

***\*/***

***@WebServlet("/productValidation")***

***public class ProductValidation extends HttpServlet {***

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

***/\*\****

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

***\*/***

***public ProductValidation() {***

***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();***

***pw.println("<html><body>");***

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

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

***// STEP 1: Gets SessionFactory Object***

***SessionFactory sf = HibernateUtility.buildSessionFactory();***

***// STEP 2: Open Sesson***

***Session session = sf.openSession();***

***Transaction tx = session.beginTransaction();***

***Product ep = new Product();***

***ep.setProductName(name);***

***session.save(ep);***

***tx.commit();***

***pw.println("<h3 style=color:green'> Product is Added successfully ! </h3>");***

***session.close();***

***}***

***}***

**Code For Utility**

package com.simplilearn.util;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.cfg.Configuration;

import com.simplilearn.entity.Product;

public class HibernateUtility {

static SessionFactory sessionFactory;

public static SessionFactory buildSessionFactory() {

if (sessionFactory == null) {

Configuration cfg = new Configuration();

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

cfg.addAnnotatedClass(Product.class);

sessionFactory = cfg.buildSessionFactory();

}

return sessionFactory;

}

public static Session getSession() {

// TODO Auto-generated method stub

return null;

}

}

***Code For hibernate.cfg***

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

<!DOCTYPE hibernate-configuration SYSTEM

"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/ecommerce</property>

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

<property name="hibernate.connection.password">Simplilearn</property>

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

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

<property name="hbm2ddl.auto">update</property>

</session-factory>

</hibernate-configuration>