// index.html

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h1>Welcome to Hibernate CRUD application</h1>

<a href=*"read-product"*>Read Product</a>

<br />

<a href=*"add-product"*>Add Product</a>

</body>

</html>

//add-product.html

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h1> Add Product</h1>

<form method=*"post"* action=*"add-product"*>

<fieldset>

<legend>Add Product form</legend>

Product Name: <input type=*"text"* name=*"name"* id=*"name"* /><br/><br/>

Product Price: <input type=*"text"* name=*"price"* id = *"price"* /> <br/><br/>

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

</fieldset>

</form>

</body>

</html>

//hibernate.cfg.xml

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

<!DOCTYPE hibernate-configuration SYSTEM

"http://www.hibernate.org/dtd/hibernate-configuration-5.3.dtd">

<hibernate-configuration>

<session-factory>

<property name=*"hibernate.connection.driver\_class"*>com.mysql.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"*>root</property>

<!-- Optional properties -->

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

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

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

</session-factory>

</hibernate-configuration>

//HibernateUtil.java

package com.util;

import org.hibernate.SessionFactory;

import org.hibernate.cfg.Configuration;

import com.entity.EProduct;

public class HibernateUtil {

public static SessionFactory buildSessionFactory() {

Configuration cfg = new Configuration();

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

cfg.addAnnotatedClass(EProduct.class);

SessionFactory sf = cfg.buildSessionFactory();

return sf;

}

}

// ReadProductServlet.java

package com.servlets;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.List;

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 com.entity.EProduct;

import com.util.HibernateUtil;

/\*\*

\* Servlet implementation class ReadProductServlet

\*/

@WebServlet("/read-product")

public class ReadProductServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public ReadProductServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

PrintWriter out = response.getWriter();

SessionFactory sf = HibernateUtil.buildSessionFactory();

Session session = sf.openSession();

List<EProduct> products = session.createQuery(" from EProduct").list();

out.print("<h1> Product List :- </h1>");

out.print("<style> table,td,th { border:2px solid red; padding: 10px; }</style>" );

out.print("<table>");

out.print("<tr>");

out.print("<th> Product Id </th>");

out.print("<th> Product Name </th>");

out.print("<th> Product Price </th>");

out.print("</tr>");

for(EProduct p : products) {

out.print("<tr>");

out.print("<td>"+p.getId()+"</td>");

out.print("<td>"+p.getName()+"</td>");

out.print("<td>"+p.getPrice()+"</td>");

out.print("</tr>");

}

out.print("</table>");

session.close();

}

/\*\*

\* @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);

}

}

// AddProductServlet.java

package com.servlets;

import java.io.IOException;

import java.io.PrintWriter;

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.entity.EProduct;

import com.util.HibernateUtil;

/\*\*

\* Servlet implementation class AddProductServlet

\*/

@WebServlet("/add-product")

public class AddProductServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public AddProductServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

request.getRequestDispatcher("add-product.html").include(request, response);

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

PrintWriter out = response.getWriter();

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

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

//Step1: Gets session Factory

SessionFactory sf = HibernateUtil.buildSessionFactory();

//Step 2: Gets Session object

Session session = sf.openSession();

//Step3: Gets Tx object and begin transaction

Transaction tx = session.beginTransaction();

// Step 4: Create and populate entity object

EProduct product = new EProduct();

product.setName(productName);

product.setPrice(Double.parseDouble(productPrice));

//Step 5: <h3 style='color:green'> ProductNischithNischith is created successfully ! </h3>Save record in DB

session.save(product);

tx.commit();

out.print("<h3> Product is created successfully ! <h3>");

session.close();

}

}

// EProduct.java

package com.entity;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="eproduct\_27012022")

public class EProduct {

@Id

@GeneratedValue

@Column(name="eproduct\_id")

private int id;

@Column(name="eproduct\_name")

private String name;

@Column(name="eproduct\_price")

private Double price;

//ALt + S + R

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;

}

}