**DESCRIPTION**

Create a servlet-based web application that shows a form to enter product details. Capture the details in a servlet and then display the data that was entered.

**Problem Statement**

As a part of developing an ecommerce web application, you have to prototype a form for adding products into the system entered by the users. There is no database involved here, so the product is just captured and displayed without storing it anywhere.

**Source Code**

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>

<a href=*"fetch"*>Click here to view Product list and details</a>

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

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

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

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

</form>

</body>

</html>

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=*"connection.driver\_class"*>com.mysql.cj.jdbc.Driver</property>

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

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

<property name=*"connection.password"*>password</property>

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

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

<property name=*"log4j.logger.org.hibernate.SQL"*>DEBUG</property>

<property name=*"log4j.logger.org.hibernate.type"*>TRACE</property>

<property name=*"dialect"*>org.hibernate.dialect.MySQL5InnoDBDialect</property>

<!-- mapping file -->

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

</session-factory>

</hibernate-configuration>

HibernateUtil

package com.org.model;

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 SessionFactory sessionFactory;

static {

try {

StandardServiceRegistry registery=

new StandardServiceRegistryBuilder().configure("hibernate.cfg.xml").build();

Metadata metadata= new MetadataSources(registery).getMetadataBuilder().build();

sessionFactory= metadata.getSessionFactoryBuilder().build();

} catch (Exception e) {

e.printStackTrace();

}

}

public static SessionFactory getSessionFactory() {

return sessionFactory;

}

}

FetchData

package com.org.controller;

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.org.model.HibernateUtil;

@WebServlet("/fetch")

public class FetchData extends HttpServlet {

private static final long serialVersionUID = 1L;

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

response.setContentType("text/html");

SessionFactory factory= HibernateUtil.getSessionFactory();

Session session= factory.openSession();

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

request.getSession().setAttribute("result",list);

response.sendRedirect("result.jsp");

}

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

doGet(request, response);

}

}

result.jsp

<%@page import=*"com.org.controller.Product"*%>

<%@page import=*"java.util.List"*%>

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<table>

<tr><th>Id</th><th>Name</th><th>Price</th><th>Date</th><tr>

<c:forEach var=*"record"* items=*"*${sessionScope.result}*"*>

<tr>

<td><c:out value=*"*${record.id }*"*></c:out></td>

<td><c:out value=*"*${record.name }*"*></c:out></td>

<td><c:out value=*"*${record.price }*"*></c:out></td>

<td><c:out value=*"*${record.dateAdded }*"*></c:out></td>

</tr>

</c:forEach>

</table>

</body>

</html>

StoreServlet

package com.org.controller;

import java.io.IOException;

import java.math.BigDecimal;

import java.util.Calendar;

import java.util.Date;

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.org.model.HibernateUtil;

@WebServlet("/store")

public class StoreServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

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

response.setContentType("text/html");

SessionFactory factory= HibernateUtil.getSessionFactory();

Session session= factory.openSession();

session.beginTransaction();

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

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

Product p=new Product();

p.setName(name);

p.setPrice(new BigDecimal(price));

p.setDateAdded(Calendar.getInstance().getTime());

session.save(p);

session.getTransaction().commit();

response.sendRedirect("success.jsp");

}

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

doGet(request, response);

}

}

success.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>

<% out.print("Data inserted successfully"); %> <br><br>

<a href=*"fetch"*>Click here to view Product list and details</a>

</body>

</html>