Phase-2 Practice Project

Adding a New Product in the Database

Source code

```
Product.java:
package com.abc.pojo;
import java.util.Date;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
import javax.persistence.Temporal;
import javax.persistence.TemporalType;
@Entity
public class Product {
@ld
@GeneratedValue(strategy = GenerationType.IDENTITY)
       private int pid;
       private String pname;
       private float cost;
       //when we have a util based date then we need to @ it with Temporal
       @Temporal(TemporalType.DATE)
       private Date orderdate;
       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 getCost() {
              return cost;
       public void setCost(float cost) {
              this.cost = cost:
```

```
}
       public Date getOrderdate() {
               return orderdate:
       }
       public void setOrderdate(Date orderdate) {
               this.orderdate = orderdate;
       }
}
DBUtil:
package com.abc.dButil;
import org.hibernate.Session;
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 DbUtil {
       StandardServiceRegistry ssr=null;
       Metadata md=null;
       SessionFactory sf=null;
       Session session=null;
       public Session dbConn() {
               //SSR is used to map the config file and execute it .
               ssr=new
StandardServiceRegistryBuilder().configure("hibernate.cfg1.xml").build();
               //Metadata of the xml file is read by this object
               md=new MetadataSources(ssr).getMetadataBuilder().build();
               //session-factory- db
               sf=md.getSessionFactoryBuilder().build();
               //all the crud operations need to be done in Session
               session=sf.openSession();
               return session;
       }
}
```

```
ProductDAO:
import java.util.List;
import org.hibernate.Session;
import org.hibernate.Transaction;
import org.hibernate.query.Query;
import com.abc.dButil.DbUtil;
import com.abc.pojo.Product;
public class ProductDAO {
       public int addProduct(Product product) {
              DbUtil dbconn=new DbUtil();
              Session session=dbconn.dbConn();
              Transaction trans=session.beginTransaction();
              int value=(Integer) session.save(product);
              trans.commit();
              session.close();
              return value;
       }
       public List<Product> display(){
              DbUtil dbconn=new DbUtil();
              Session session=dbconn.dbConn();
              Transaction trans=session.beginTransaction();
              Query query=session.createQuery("from Product");
              List<Product> list=query.list();
              trans.commit();
              session.close();
              return list;
       }
       public List<Product> delete(Product product) {
              DbUtil dbconn=new DbUtil();
              Session session=dbconn.dbConn();
              Transaction trans=session.beginTransaction();
              session.delete(product);
              trans.commit();
              session.close();
              return display();
       }
}
```

Hibernate.config.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC</p>
          "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
          "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
 <session-factory>
   <!--db driver , connection -->
   <!--hibernate config -->
  property name="hbm2ddl.auto">update/property>
  property name="show_sql">true/property>
  <!--pojo -->
  <mapping class="com.abc.pojo.Product"/>
 </session-factory>
</hibernate-configuration>
Index.jsp:
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
 pageEncoding="ISO-8859-1"%>
  < @ page import="com.abc.dao. *" %>
 <%@ page import="com.abc.pojo.*" %>
 <%@page import="java.util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="addproduct.jsp">
<input type="submit" value="addproduct">
</form>
<h1><i>List of products </i></h1>
PidPnamePCostPOrderDateEdit
ActionDelete Action
<%
ProductDAO dao=new ProductDAO();
List<Product> list=dao.display();
for(Product p:list){
<%=p.qetPid() %><%=p.qetPname() %><%=p.qetCost()
%><%=p.getOrderdate() %><a
```

```
href="edit.jsp?id=<%=p.getPid()%>">Edit</a><a
href="delete.jsp?id=<%=p.getPid()%>">Delete</a>
<%} %>
</body>
</html>
addProduct.jsp:
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
 pageEncoding="/SO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1><i>Add a product</i></h1>
<form action="addController.jsp">
Pname
Pcost<input type="text" name="pcost">
Orderdate<input type="date" name="pdoo">
</form>
</body>
</html>
addController.jsp:
<%@page import="java.text.SimpleDateFormat"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
 pageEncoding="ISO-8859-1"%>
 <%@ page import="com.abc.dao.*" %>
 < @ page import="com.abc.pojo.*" %>
 <%@page import="java.util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="/SO-8859-1">
<title>Insert title here</title>
</head>
<body>
ProductDAO dao=new ProductDAO();
Product product=new Product();
product.setPname(request.getParameter("pname"));
product.setCost(Float.parseFloat(request.getParameter("pcost")));
//mysql always accept the date in the format of yyyy-MM-dd
//convert the java based util date to sql date
```

```
SimpleDateFormat dateFormat=new SimpleDateFormat("yyyy-MM-dd");
Date date=dateFormat.parse(request.getParameter("pdoo"));
product.setOrderdate(date);
int row=dao.addProduct(product);
if(row>0){}
       response.sendRedirect("success.jsp");
}
else{
       response.sendRedirect("fail.jsp");
}
%>
</body>
</html>
Success.jsp:
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
 pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>the product got added successfully....</h1>
<%@ include file="index.jsp" %>
</body>
</html>
Delete.jsp:
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
 pageEncoding="ISO-8859-1"%>
   < @ page import="com.abc.dao.*" %>
 <%@ page import="com.abc.pojo.*" %>
  <%@page import="java.util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>deleted the product successfully....</h1>
<%@include file="button.jsp" %>
<h1><i>List of products </i></h1>
PidPnamePCostPOrderDateEdit
ActionDelete Action
```

```
<%
ProductDAO dao=new ProductDAO();
Product product=new Product();
product.setPid(Integer.parseInt(request.getParameter("id")));
List<Product> list=dao.delete(product);
for(Product p:list){
<%=p.getPid() %><%=p.getPname() %><%=p.getCost()
%><%=p.getOrderdate() %><a
href="edit.jsp?id=<%=p.getPid()%>">Edit</a><a
href="delete.jsp?id=<%=p.getPid()%>">Delete</a>
<%} %>
</body>
</html>
Button.jsp:
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
 pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="addproduct.jsp">
<input type="submit" value="addproduct">
</form>
</body>
</html>
```