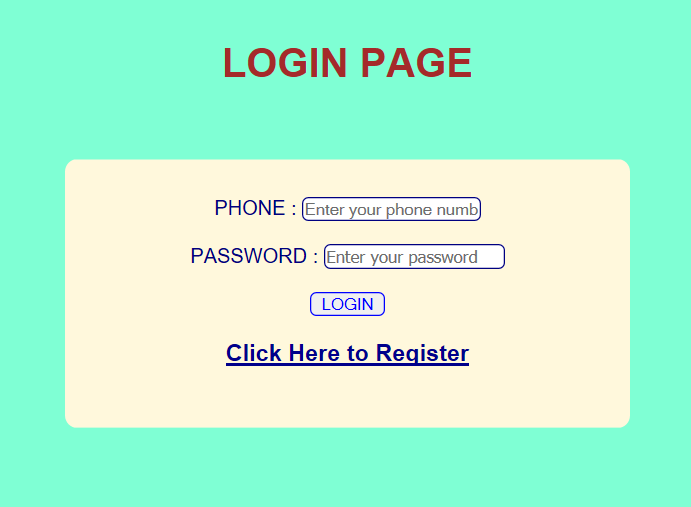
**PROJECT…**

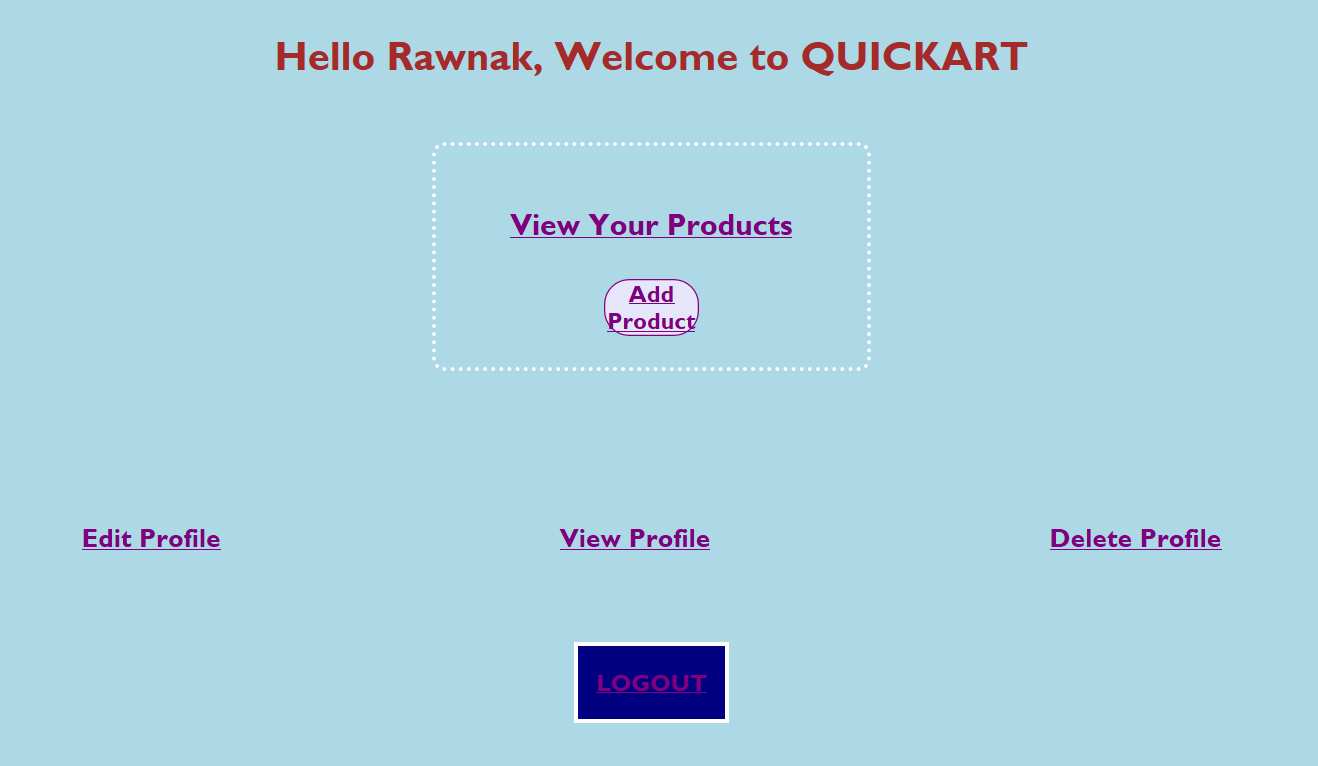
Development of Shopping Cart application by using MAVEN

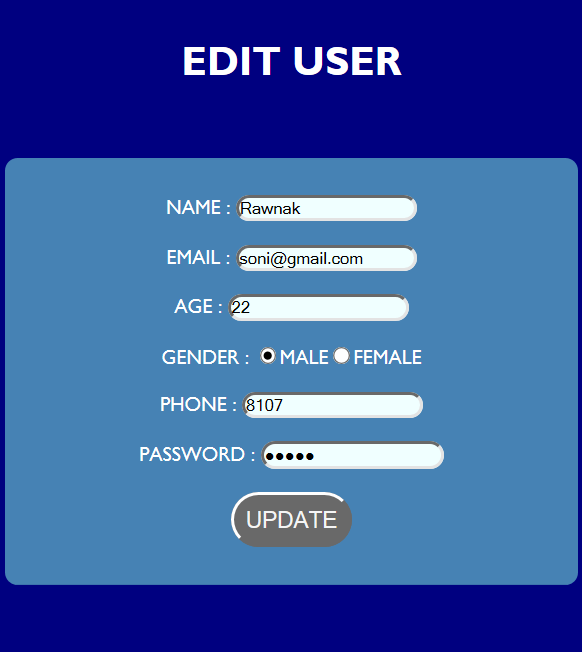
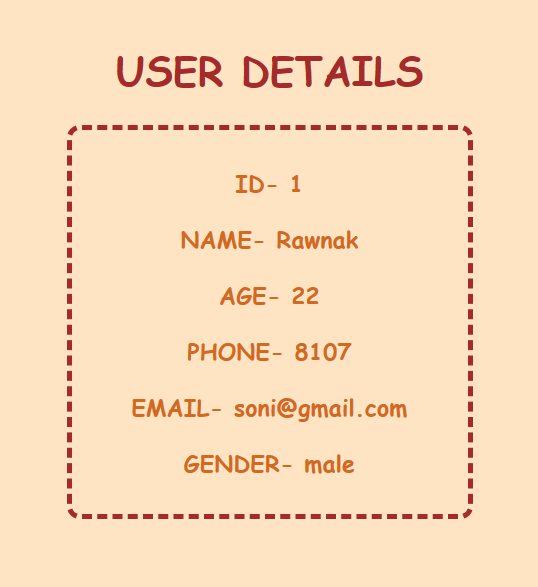
**Technologies used :** HTML, JSP, CSS, Java, Servlet, JPA, Maven

**Database used :** My-SQL

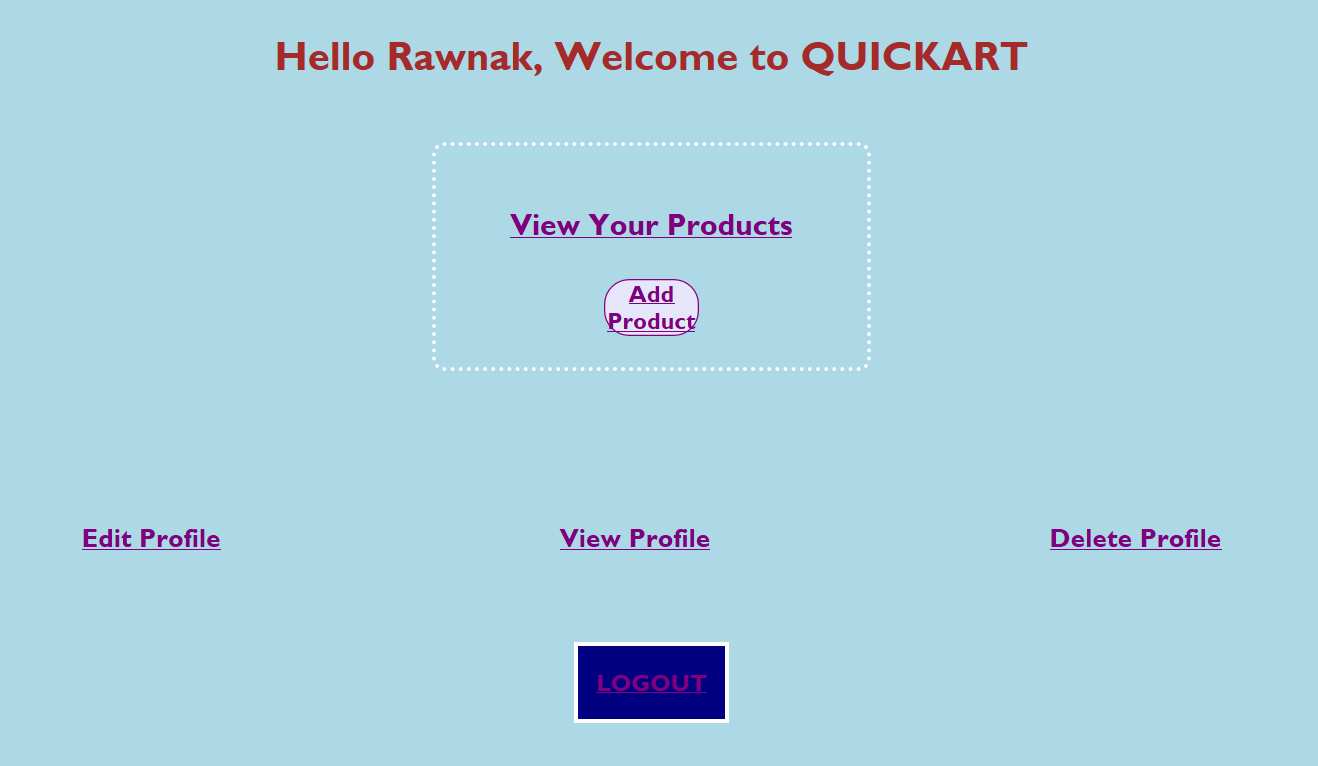
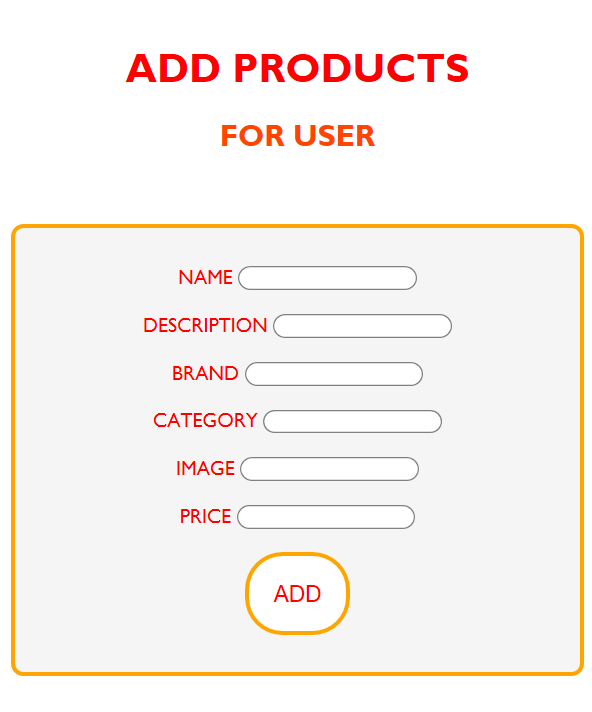
**USER MODULE FLOW**

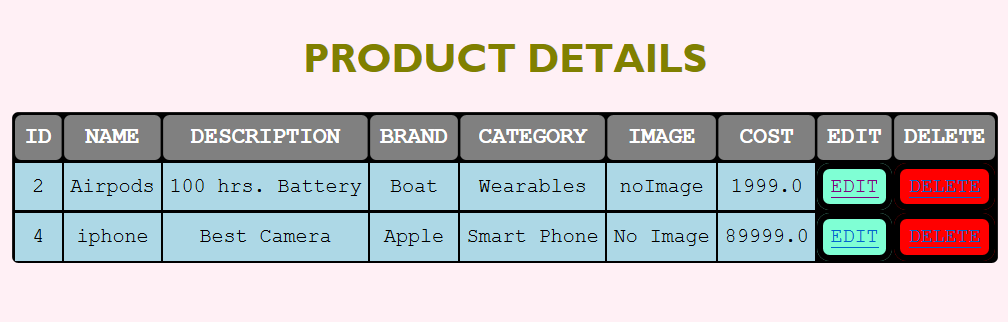
** **

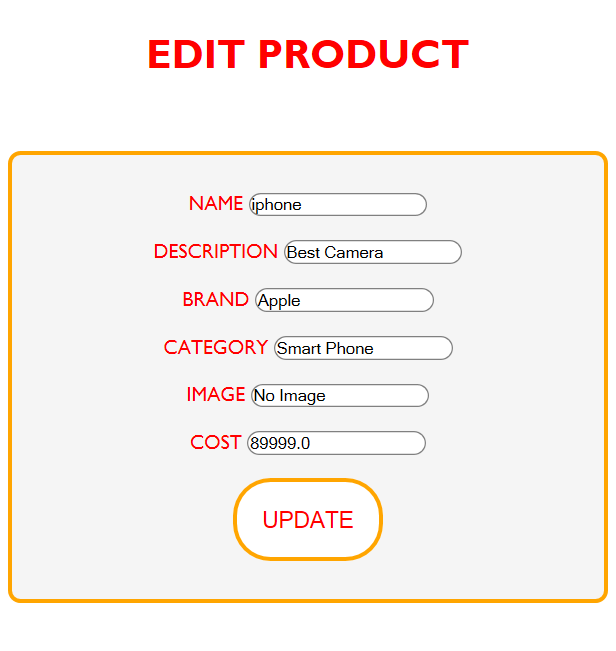
****

** **

**PRODUCT MODULE FLOW**

** **

****

****

**Steps to Create the above Project -**

Step 1 : Create a MAVEN project by selecting he following Arch Type -

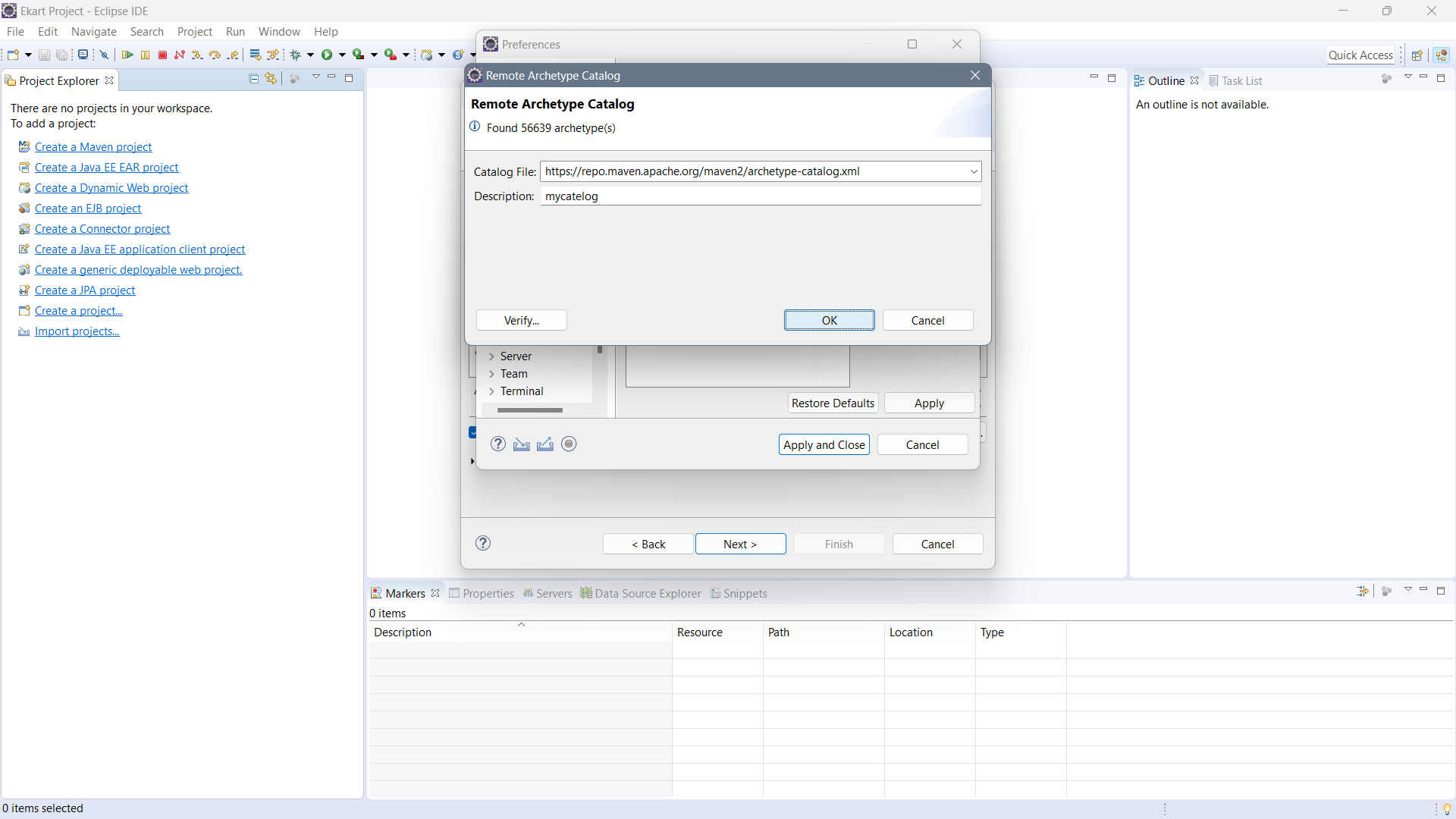
GroupID -> org.apache.maven.archetypes

Artifact Id maven-archtype -> webapp

Version -> 1.4

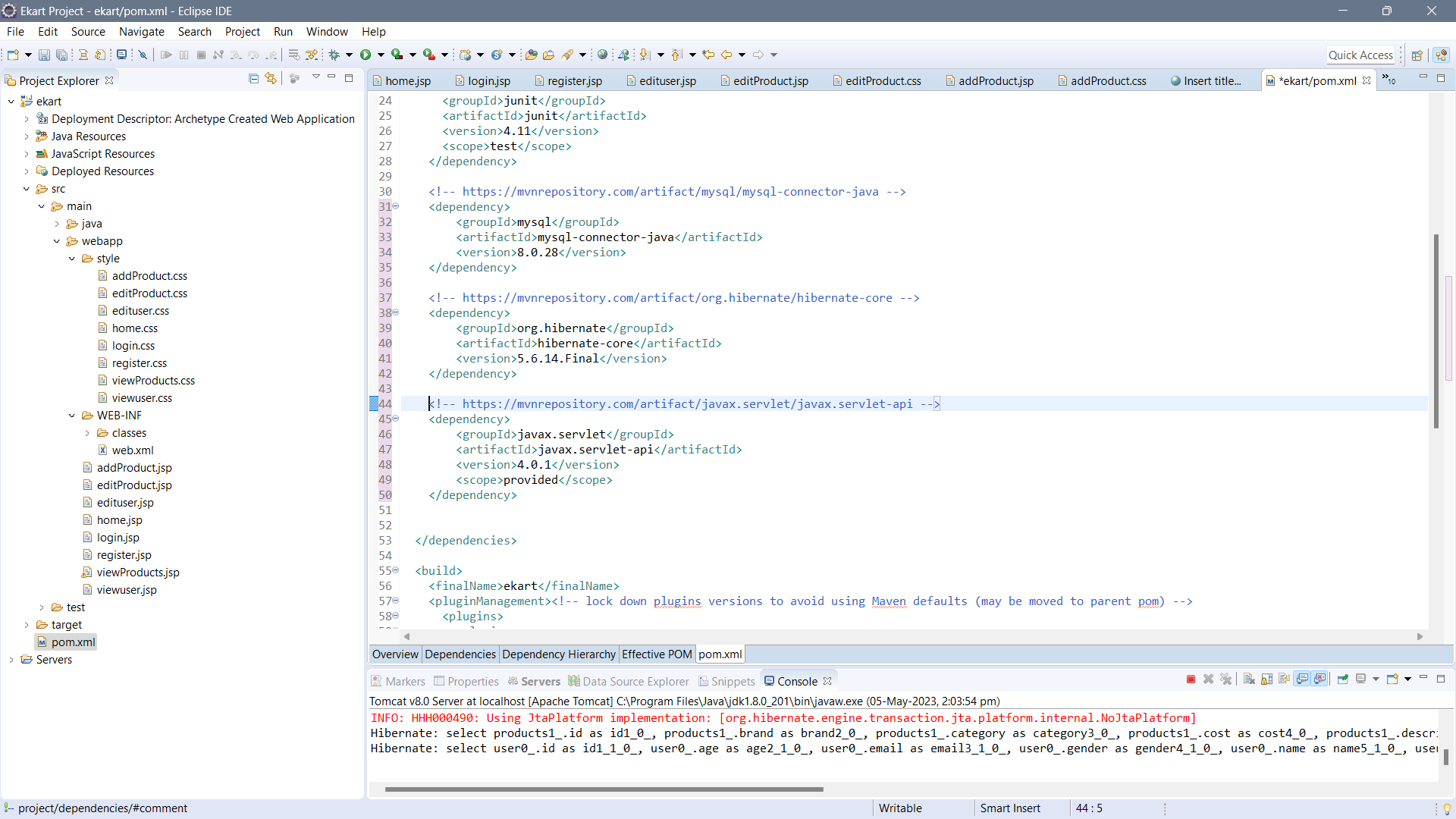
**NOTE : if you don’t get the specified archetype add the Remote Catalog by using the following link:**

**[https://repo.maven.apache.org/maven2/archetype-catalog.xml](https://repo.maven.apche.org/maven2/archetype-catalog.xml)**

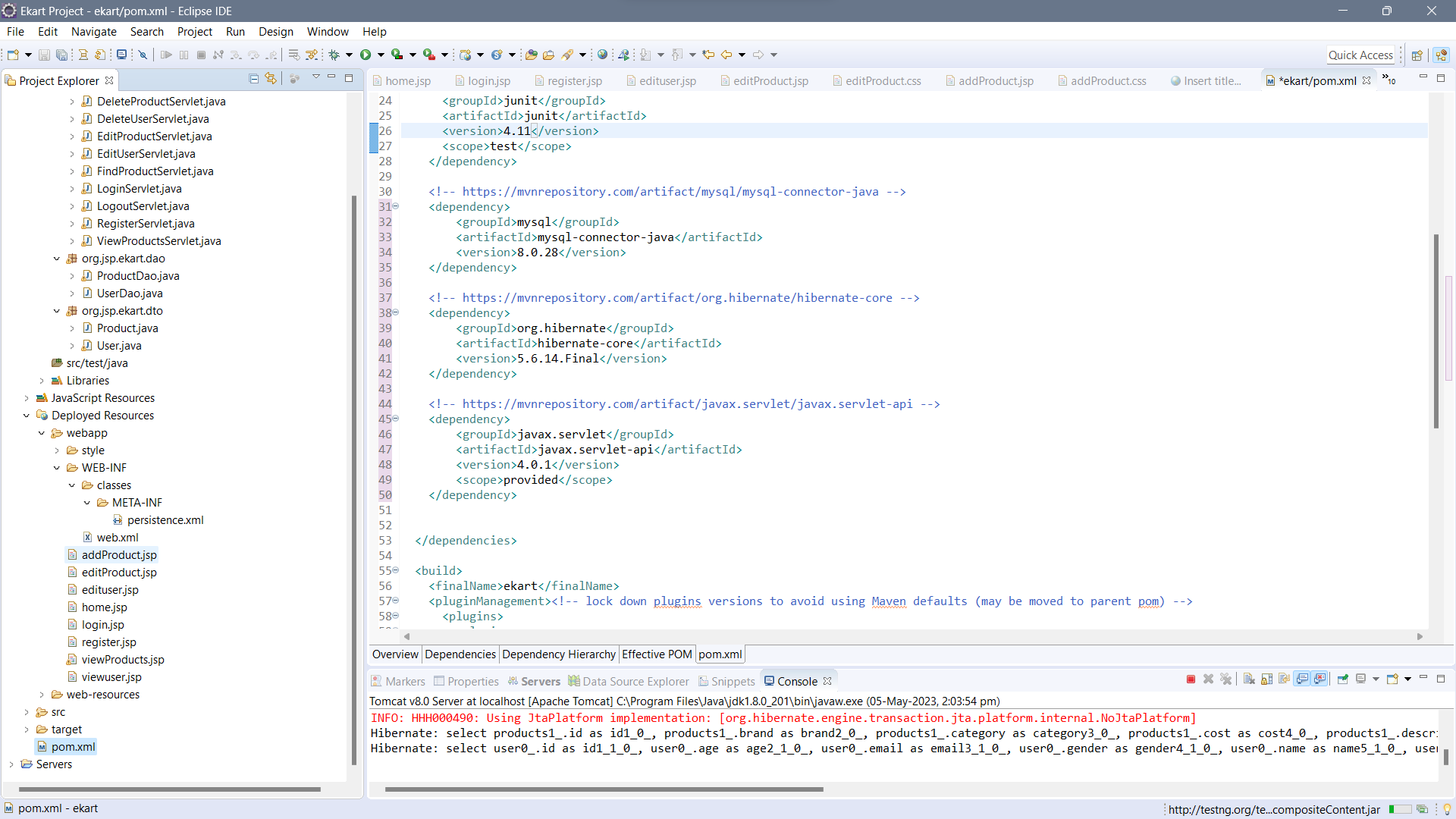
****

Step 2 : Add the Following Dependencies in pom.xml

1. Hibernate-core-relocation (5.6.14.Final)
2. Mysql-Connector-java (8.0.28)
3. Servlet-api (4.0.1)



Step 3 : Create **persistence.xml** file, **[** **webapp > WEB-INF** **> Classes > META-INF > persistence.xml ]**



**Here we BEGINS,**

**Add the below code in ‘web.xml’**

<web-app>

<display-name>Archetype Created Web Application</display-name>

<welcome-file-list>

<welcome-file>login.jsp</welcome-file>

</welcome-file-list>

</web-app>

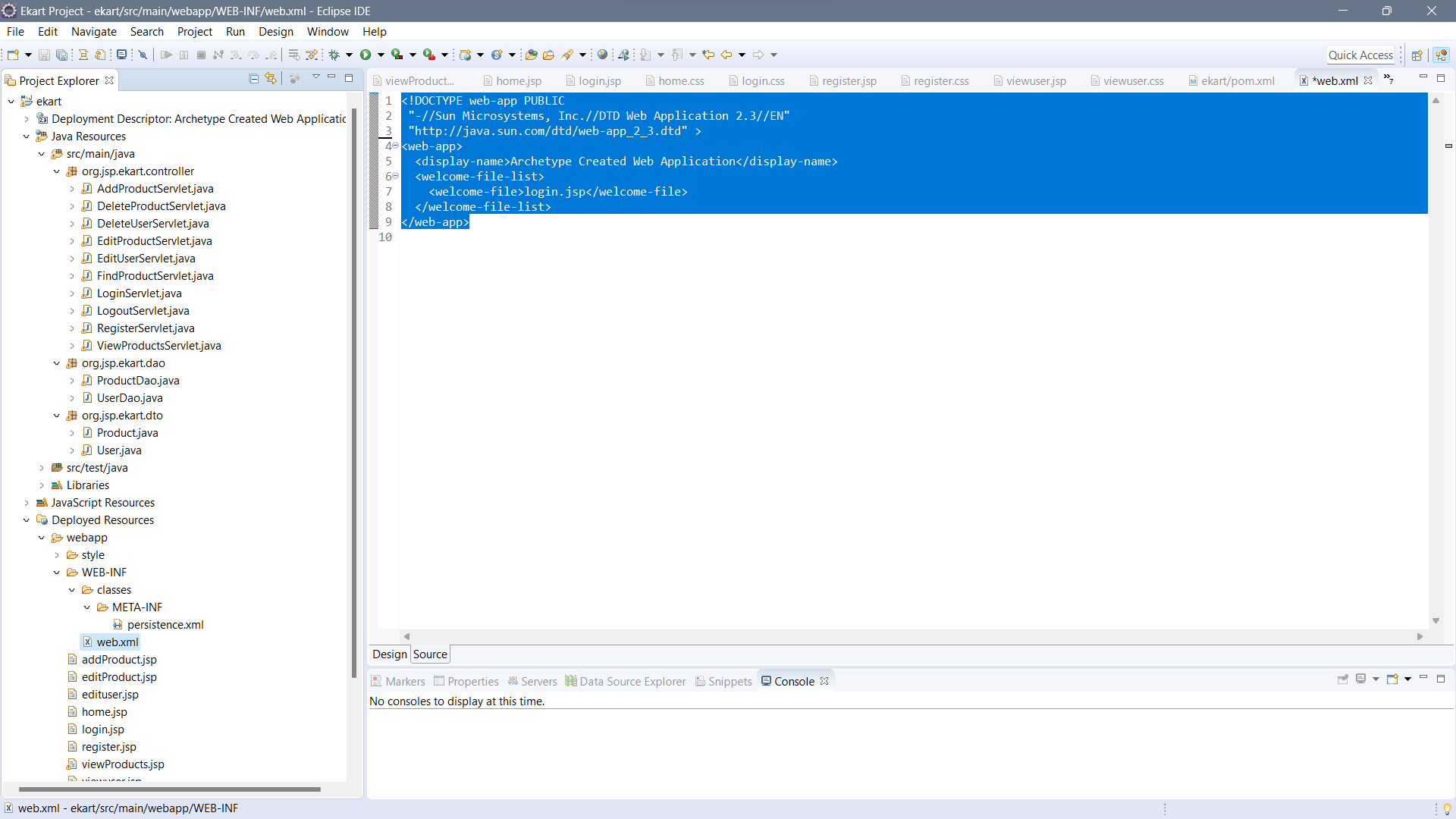
**Now create 3 packages in src/main/java, respectively:-**

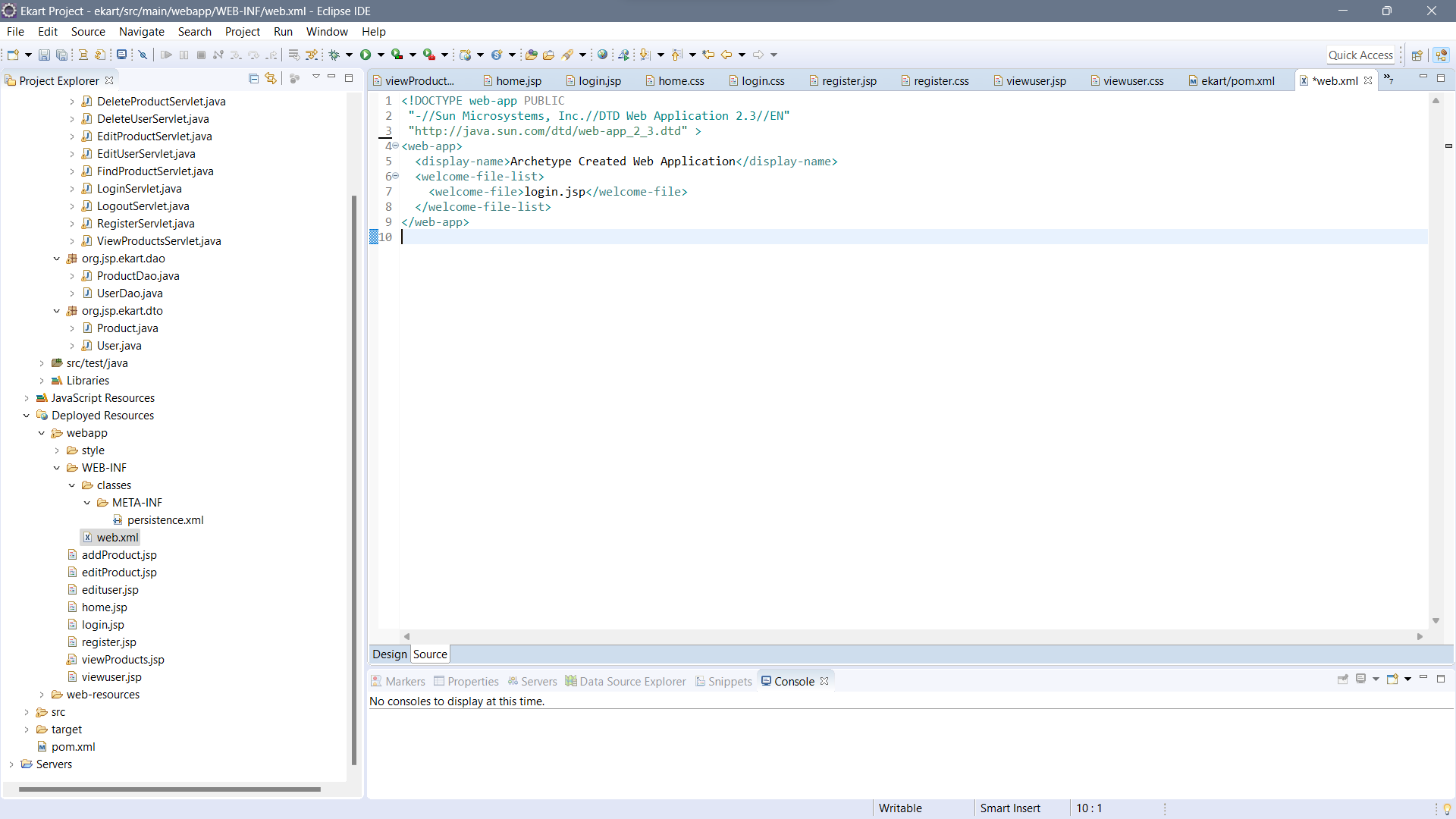
**org.jsp.dto**

**org.jsp.dao**

**org.jsp.controller**

**Hierarchy of All the Folders of our Project**

****

****

**Code for web.xml, add your user Name and Password for SQL**

<persistence xmlns="http://xmlns.jcp.org/xml/ns/persistence" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/persistence http://xmlns.jcp.org/xml/ns/persistence/persistence\_2\_1.xsd" version="2.1">

<persistence-unit name="dev">

<provider>org.hibernate.jpa.HibernatePersistenceProvider</provider>

<properties>

<property name="javax.persistence.jdbc.driver" value="com.mysql.cj.jdbc.Driver"/>

<property name="javax.persistence.jdbc.url" value="jdbc:mysql://localhost:3306/ekart?createDatabaseIfNotExist=true"/>

<property name="javax.persistence.jdbc.user" value="\*\*\*\*"/>

<property name="javax.persistence.jdbc.password" value="\*\*\*\*"/>

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

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

<property name="hibernate.dialect" value="org.hibernate.dialect.MySQL8Dialect"/>

</properties>

</persistence-unit>

</persistence>

**Code for Entity class User.java in dto layer/package**

package org.jsp.ekart.dto;

import java.util.List;

import javax.persistence.CascadeType;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.OneToMany;

@Entity

public class User

{

public User(String name, String password, String gender, int age, String email, long phone)

{

super();

this.name = name;

this.password = password;

this.gender = gender;

this.age = age;

this.email = email;

this.phone = phone;

}

public User()

{

}

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private int id;

private String name, password, gender;

private int age;

@Column(unique = true)

private String email;

@Column(unique = true)

private long phone;

@OneToMany(mappedBy = "user")

private List<Product> products;

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 String getPassword()

{

return password;

}

public void setPassword(String password)

{

this.password = password;

}

public String getGender()

{

return gender;

}

public void setGender(String gender)

{

this.gender = gender;

}

public int getAge()

{

return age;

}

public void setAge(int age)

{

this.age = age;

}

public String getEmail()

{

return email;

}

public void setEmail(String email)

{

this.email = email;

}

public long getPhone()

{

return phone;

}

public void setPhone(long phone)

{

this.phone = phone;

}

public List<Product> getProducts()

{

return products;

}

public void setProducts(List<Product> products)

{

this.products = products;

}

}

**Code for Entity class Product.java in dto layer/package**

package org.jsp.ekart.dto;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.JoinColumn;

import javax.persistence.ManyToOne;

@Entity

public class Product

{

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private int id;

private String name,description,brand,category;

private double cost;

private String image;

@ManyToOne

@JoinColumn

private User user;

public Product(String name, String description, String brand, String category, double cost, String image)

{

super();

this.name = name;

this.description = description;

this.brand = brand;

this.category = category;

this.cost = cost;

this.image = image;

}

public Product()

{

}

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 String getDescription()

{

return description;

}

public void setDescription(String description)

{

this.description = description;

}

public String getBrand()

{

return brand;

}

public void setBrand(String brand)

{

this.brand = brand;

}

public String getCategory()

{

return category;

}

public void setCategory(String category)

{

this.category = category;

}

public double getCost()

{

return cost;

}

public void setCost(double cost)

{

this.cost = cost;

}

public String getImage()

{

return image;

}

public void setImage(String image)

{

this.image = image;

}

public User getUser()

{

return user;

}

public void setUser(User user)

{

this.user = user;

}

}

**Code for UserDao.java in dao layer/package**

package org.jsp.ekart.dao;

import javax.persistence.EntityManager;

import javax.persistence.EntityTransaction;

import javax.persistence.NoResultException;

import javax.persistence.Persistence;

import javax.persistence.Query;

import org.jsp.ekart.dto.User;

public class UserDao

{

EntityManager m = Persistence.createEntityManagerFactory("dev").createEntityManager();

public User saveUSer(User user)

{

EntityTransaction t = m.getTransaction();

m.persist(user);

t.begin();

t.commit();

return user;

}

public User updateUser(User user)

{

EntityTransaction t = m.getTransaction();

m.merge(user);

t.begin();

t.commit();

return user;

}

public User findById(int id)

{

return m.find(User.class,id);

}

public User verifyUser(long phone, String password)

{

Query q = m.createQuery("select u from User u where u.phone=?1 and u.password=?2");

q.setParameter(1, phone);

q.setParameter(2, password);

try

{

return (User) q.getSingleResult();

}

catch (NoResultException e)

{

return null;

}

}

public boolean deleteUser(int id)

{

User u = findById(id);

if(u!=null)

{

EntityTransaction t = m.getTransaction();

m.remove(u);

t.begin();

t.commit();

return true;

}

return false;

}

}

**Code for ProductDao.java in dao layer/package**

package org.jsp.ekart.dao;

import java.util.List;

import javax.persistence.EntityManager;

import javax.persistence.EntityTransaction;

import javax.persistence.Persistence;

import javax.persistence.Query;

import org.jsp.ekart.dto.Product;

import org.jsp.ekart.dto.User;

public class ProductDao

{

EntityManager m = Persistence.createEntityManagerFactory("dev").createEntityManager();

public Product saveProduct(Product product, int user\_id)

{

User u = m.find(User.class, user\_id);

if(u!=null)

{

u.getProducts().add(product);

product.setUser(u);

EntityTransaction t = m.getTransaction();

m.persist(product);

t.begin();

t.commit();

return product;

}

return null;

}

public Product updateProduct(Product product, int user\_id)

{

User u = m.find(User.class, user\_id);

if(u!=null)

{

u.getProducts().add(product);

product.setUser(u);

EntityTransaction t = m.getTransaction();

m.merge(product);

t.begin();

t.commit();

return product;

}

return null;

}

public Product findProductById(int id)

{

return m.find(Product.class,id);

}

public boolean deleteProduct(int id)

{

Product u = findProductById(id);

if(u!=null)

{

EntityTransaction t = m.getTransaction();

m.remove(u);

t.begin();

t.commit();

return true;

}

return false;

}

public List<Product> findUserByUserId(int user\_id)

{

Query q = m.createQuery("select u.products from User u where u.id=?1");

q.setParameter(1, user\_id);

return q.getResultList();

}

}

**Code for JSP Files in ‘webapps’ Folder**

**Login.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>

<%

String message=(String) request.getAttribute("msg");

if(message != null)

{

%>

<h2><%=message%></h2>

<%

}

%>

<form action="login" method="post">

<h1>LOGIN PAGE</h1><br><br>

<div>

PHONE : <input type="tel" name="ph" placeholder="Enter your phone number"> <br> <br>

PASSWORD : <input type="password" name="ps" placeholder="Enter your password"> <br> <br>

<input type="submit" value="LOGIN" id="btn">

<h3> <a href="register.jsp">Click Here to Register</a> </h3>

</div>

</form>

</body>

</html>

**Register.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>

<h1>REGISTER PAGE</h1> <br> <br>

<form action="reg" method="post">

NAME : <input type="text" name="nm"> <br> <br>

AGE : <input type="number" name="age"> <br> <br>

GENDER : <input type="radio" name="gender" value="male"> MALE <input type="radio" name="gender" value="female"> FEMALE<br> <br>

PHONE : <input type="tel" name="ph"> <br> <br>

EMAIL : <input type="email" name="em"> <br> <br>

PASSWORD : <input type="password" name="ps"> <br> <br>

<input type="submit" value="REGISTER" id="btn">

</form>

</body>

</html>

**Home.jsp**

<%@page import="org.jsp.ekart.dto.User"%>

<%@ 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>

<%

User u = (User) session.getAttribute("user");

if(u !=null)

{

%>

<h3 id="wlc">Hello <%=u.getName() %>, Welcome to QUICKART</h3>

<div id="bx">

<h3 id="vw"><a href="viewproducts">View Your Products</a></h3>

<h3 id="add"><a href="addProduct.jsp">Add Product</a></h3>

</div>

<div id="nv">

<h3><a href="edituser.jsp">Edit Profile</a></h3>

<h3><a href="viewuser.jsp">View Profile</a></h3>

<h3 id="dlt"><a href="delete">Delete Profile</a></h3>

</div>

<div id="foot">

<h3 id="lo"><a href="logout">LOGOUT</a></h3>

</div>

<%

}

else

{

response.sendRedirect("login.jsp");

}

%>

</body>

</html>

**ViewUser.jsp**

<%@page import="org.jsp.ekart.dto.User"%>

<%@ 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>

<%

User user = (User) session.getAttribute("user");

if(user != null)

{

%>

<h1>USER DETAILS</h1>

<div>

<h3>ID- <%=user.getId() %></h3>

<h3>NAME- <%=user.getName() %></h3>

<h3>AGE- <%=user.getAge() %></h3>

<h3>PHONE- <%=user.getPhone() %></h3>

<h3>EMAIL- <%=user.getEmail() %></h3>

<h3>GENDER- <%=user.getGender() %></h3>

</div>

<%

}

else

{

response.sendRedirect("login.jsp");

}

%>

</body>

</html>

**EditUser.jsp**

<%@page import="org.jsp.ekart.dto.User"%>

<%@ 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>

<%

User user = (User) session.getAttribute("user");

if(user != null)

{

%>

<h1>EDIT USER</h1> <br> <br>

<form action="edit" method="post">

<input type="hidden" name="id" value="<%=user.getId()%>">

NAME : <input type="text" name="nm" value="<%=user.getName() %>"><br><br>

EMAIL : <input type="email" name="em" value="<%=user.getEmail() %>"><br><br>

AGE : <input type="number" name="age" value="<%=user.getAge() %>"><br><br>

GENDER : <input type="radio" name="gender" value="male">MALE<input type="radio" name="gender" value="female">FEMALE <br><br>

PHONE : <input type="tel" name="ph" value="<%=user.getPhone() %>"><br><br>

PASSWORD : <input type="password" name="ps" value="<%=user.getPassword() %>"><br><br>

<input type="submit" value="UPDATE" id="btn">

</form>

<%

}

else

{

response.sendRedirect("login.jsp");

}

%>

</body>

</html>

**AddProduct.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>

<h1>ADD PRODUCTS</h1>

<h2>FOR USER</h2> <br> <br>

<form action="addproduct" method="post">

NAME <input type="text" name="nm"><br><br>

DESCRIPTION <input type="text" name="desc"><br><br>

BRAND <input type="text" name="br"><br><br>

CATEGORY <input type="text" name="cat"><br><br>

IMAGE <input type="text" name='im'><br><br>

PRICE <input type="text" name="cost"><br><br>

<input type="submit" value="ADD" id="btn">

</form>

</body>

</html>

**EditProduct.jsp**

<%@page import="org.jsp.ekart.dto.Product"%>

<%@page import="org.jsp.ekart.dto.User"%>

<%@ 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>

<h1>EDIT PRODUCT</h1> <br> <br>

<%

User user = (User) session.getAttribute("user");

if (user != null)

{

Product p = (Product) request.getAttribute("product");

%>

<form action="editproduct" method="post">

<input type="hidden" value="<%=p.getId()%>" name="id">

NAME <input type="text" name="nm" value="<%=p.getName()%>"><br> <br>

DESCRIPTION <input type="text" name="desc" value="<%=p.getDescription()%>"><br> <br>

BRAND <input type="text" name="br" value="<%=p.getBrand()%>"><br><br>

CATEGORY <input type="text" name="cat" value="<%=p.getCategory()%>"><br><br>

IMAGE <input type="text" name='im' value="<%=p.getImage()%>"><br><br>

COST <input type="text" name="cost" value="<%=p.getCost()%>"><br><br>

<input type="submit" value="UPDATE" id="btn">

</form>

<%

}

else

{

response.sendRedirect("login.jsp");

}

%>

</body>

</html>

**ViewProducts.jsp**

<%@page import="org.jsp.ekart.dto.Product"%>

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

<%@page import="org.jsp.ekart.dto.User"%>

<%@ 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>

<h1>PRODUCT DETAILS</h1>

<%

User user = (User) session.getAttribute("user");

if(user!=null)

{

List<Product> products = (List<Product>) request.getAttribute("products");

%>

<div>

<table>

<tr>

<th>ID</th>

<th>NAME</th>

<th>DESCRIPTION</th>

<th>BRAND</th>

<th>CATEGORY</th>

<th>IMAGE</th>

<th>COST</th>

<th>EDIT</th>

<th>DELETE</th>

</tr>

<%

for (Product p : products)

{

%>

<tr>

<td><%=p.getId()%></td>

<td><%=p.getName()%></td>

<td><%=p.getDescription()%></td>

<td><%=p.getBrand()%></td>

<td><%=p.getCategory()%></td>

<td><%=p.getImage()%></td>

<td><%=p.getCost() %></td>

<td id="editbtn"><a href="find?pid=<%=p.getId()%>">EDIT</a></td>

<td id="dltbtn"><a href="deleteproduct?pid=<%=p.getId()%>">DELETE</a></td>

</tr>

<%

}

%>

</table>

</div>

<%

}

else

{

response.sendRedirect("login.jsp");

}

%>

</body>

</html>

**Code for Servlet files in Controller layer/package**

**LoginServlet.java**

package org.jsp.ekart.controller;

import java.io.IOException;

import java.io.PrintWriter;

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 javax.servlet.http.HttpSession;

import org.jsp.ekart.dao.UserDao;

import org.jsp.ekart.dto.User;

@WebServlet("/login")

public class LoginServlet extends HttpServlet

{

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException

{

long phone = Long.parseLong(req.getParameter("ph"));

String password = req.getParameter("ps");

UserDao dao = new UserDao();

User u = dao.verifyUser(phone, password);

RequestDispatcher d = null;

PrintWriter w = resp.getWriter();

if(u!=null)

{

HttpSession s = req.getSession();

s.setAttribute("user", u);

d = req.getRequestDispatcher("home.jsp");

d.forward(req, resp);

}

else

{

w.write("<html><body><h2>INVALID Number or Password</h2></body></html>");

d = req.getRequestDispatcher("login.jsp");

d.include(req, resp);

}

}

}

**LogoutServlet.java**

package org.jsp.ekart.controller;

import java.io.IOException;

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 javax.servlet.http.HttpSession;

@WebServlet("/logout")

public class LogoutServlet extends HttpServlet

{

@Override

protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException

{

HttpSession s = req.getSession();

s.invalidate();

req.setAttribute("msg", "You Are Logged Out");

RequestDispatcher d = req.getRequestDispatcher("login.jsp");

d.forward(req, resp);

}

}

**RegisterServlet.java**

package org.jsp.ekart.controller;

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.jsp.ekart.dao.UserDao;

import org.jsp.ekart.dto.User;

@WebServlet("/reg")

public class RegisterServlet extends HttpServlet

{

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException

{

long phone = Long.parseLong(req.getParameter("ph"));

String password = req.getParameter("ps");

String email = req.getParameter("em");

String gender = req.getParameter("gender");

String name = req.getParameter("nm");

int age = Integer.parseInt(req.getParameter("age"));

User u = new User(name, password, gender, age, email, phone);

UserDao dao = new UserDao();

u = dao.saveUSer(u);

PrintWriter w = resp.getWriter();

w.write("<html><body><h2>User Registered with id :"+u.getId()+"</h2></body></html>");

}

}

**EditUserServlet.java**

package org.jsp.ekart.controller;

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 javax.servlet.http.HttpSession;

import org.jsp.ekart.dao.UserDao;

import org.jsp.ekart.dto.User;

@WebServlet("/edit")

public class EditUserServlet extends HttpServlet

{

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException

{

int id = Integer.parseInt(req.getParameter("id"));

long phone = Long.parseLong(req.getParameter("ph"));

String password = req.getParameter("ps");

String email = req.getParameter("em");

String gender = req.getParameter("gender");

String name = req.getParameter("nm");

int age = Integer.parseInt(req.getParameter("age"));

User u = new User(name, password, gender, age, email, phone);

u.setId(id);

UserDao dao = new UserDao();

u = dao.updateUser(u);

HttpSession s = req.getSession();

s.setAttribute("user", u);

PrintWriter w = resp.getWriter();

w.write("<html><body><h2>User Updated Succesfully</h2></body></html>");

}

}

**DeleteUserServlet.java**

package org.jsp.ekart.controller;

import java.io.IOException;

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 javax.servlet.http.HttpSession;

import org.jsp.ekart.dao.UserDao;

import org.jsp.ekart.dto.User;

@WebServlet("/delete")

public class DeleteUserServlet extends HttpServlet

{

@Override

protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException

{

HttpSession s = req.getSession();

User u = (User) s.getAttribute("user");

if(u != null)

{

int id = u.getId();

UserDao dao = new UserDao();

dao.deleteUser(id);

s.invalidate();

req.setAttribute("msg", "Your Account is Deleted");

RequestDispatcher d = req.getRequestDispatcher("login.jsp");

d.forward(req, resp);

}

else

{

resp.sendRedirect("login.jsp");

}

}

}

**AddProductServlet.java**

package org.jsp.ekart.controller;

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.jsp.ekart.dao.ProductDao;

import org.jsp.ekart.dto.Product;

import org.jsp.ekart.dto.User;

@WebServlet("/addproduct")

public class AddProductServlet extends HttpServlet

{

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

String name = req.getParameter("nm");

String brand = req.getParameter("br");

String description = req.getParameter("desc");

String category = req.getParameter("cat");

String image = req.getParameter("im");

double cost = Double.parseDouble(req.getParameter("cost"));

Product p = new Product(name, description, brand, category, cost, image);

ProductDao dao = new ProductDao();

User u = (User) req.getSession().getAttribute("user");

p = dao.updateProduct(p, u.getId());

PrintWriter w = resp.getWriter();

w.write("<html><body><h2>Product added with ID :" + p.getId() + "</h2></body></html>");

}

}

**DeleteProductServlet.java**

package org.jsp.ekart.controller;

import java.io.IOException;

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.jsp.ekart.dao.ProductDao;

import org.jsp.ekart.dto.User;

@WebServlet("/deleteproduct")

public class DeleteProductServlet extends HttpServlet

{

@Override

protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

User u = (User) req.getSession().getAttribute("user");

if(u!=null)

{

int id = Integer.parseInt(req.getParameter("pid"));

ProductDao dao = new ProductDao();

dao.deleteProduct(id);

RequestDispatcher d = req.getRequestDispatcher("viewproducts");

d.forward(req, resp);

}

else

{

resp.sendRedirect("login.jsp");

}

}

}

**EditProductServlet.java**

package org.jsp.ekart.controller;

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.jsp.ekart.dao.ProductDao;

import org.jsp.ekart.dto.Product;

import org.jsp.ekart.dto.User;

@WebServlet("/editproduct")

public class EditProductServlet extends HttpServlet

{

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

int id = Integer.parseInt(req.getParameter("id"));

String name = req.getParameter("nm");

String brand = req.getParameter("br");

String description = req.getParameter("desc");

String category = req.getParameter("cat");

String image = req.getParameter("im");

double cost = Double.parseDouble(req.getParameter("cost"));

Product p = new Product(name, description, brand, category, cost, image);

p.setId(id);

ProductDao dao = new ProductDao();

User u = (User) req.getSession().getAttribute("user");

p = dao.updateProduct(p, u.getId());

PrintWriter w = resp.getWriter();

w.write("<html><body><h2>Product added with ID :" + p.getId() + "</h2></body></html>");

}

}

**FindProductServlet.java**

package org.jsp.ekart.controller;

import java.io.IOException;

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.jsp.ekart.dao.ProductDao;

import org.jsp.ekart.dto.Product;

@WebServlet("/find")

public class FindProductServlet extends HttpServlet

{

@Override

protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

int pid = Integer.parseInt(req.getParameter("pid"));

ProductDao dao = new ProductDao();

Product p = dao.findProductById(pid);

if(p!=null)

{

RequestDispatcher d = req.getRequestDispatcher("editProduct.jsp");

req.setAttribute("product", p);

d.forward(req, resp);

}

else

{

resp.sendRedirect("login.jsp");

}

}

}

**ViewProductsServlet.java**

package org.jsp.ekart.controller;

import java.io.IOException;

import java.util.List;

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.jsp.ekart.dao.ProductDao;

import org.jsp.ekart.dto.Product;

import org.jsp.ekart.dto.User;

@WebServlet("/viewproducts")

public class ViewProductsServlet extends HttpServlet

{

@Override

protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

User u = (User) req.getSession().getAttribute("user");

ProductDao dao = new ProductDao();

List<Product> products = dao.findUserByUserId(u.getId());

req.setAttribute("products", products);

RequestDispatcher d = req.getRequestDispatcher("viewProducts.jsp");

d.forward(req, resp);

}

}