# 1- Connect Class

package Connection;

import java.sql.\*;

public class Connect {

private static Connection con;

public static Connection getConnection() {

try {

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hibernate","jroot","1234");

}catch (Exception e) {

// TODO: handle exception

}

return con;

}

}

# 2- Product\_DAL Class

package DAL;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.Statement;

import java.util.LinkedList;

import java.util.List;

import Connection.Connect;

public class Product\_DAL {

//@SuppressWarnings("unchecked")

public List getProduct(String pid) {

List<Object[]> product = new LinkedList();

try (Connection con =Connect.getConnection()){

Statement statement=con.createStatement();

String select="select P.id, P.name, P.price from products P where P.id='"+pid+"' ";

ResultSet rs=statement.executeQuery(select);

// add elements to the List:product

while(rs.next()) {

Object[] oa= {rs.getString(1),rs.getString(2),rs.getString(3)};

product.add(oa);

//product=product;

}

//con.close();

} catch (Exception e) {

e.printStackTrace();

}

return product;

}

/\* public static void main(String[] args) {

Product\_DAL b=new Product\_DAL();

List<Object[]> o=b.getProduct();

try {

for(Object[] k:o) {

System.out.println(k[0]);

System.out.println(k[1]);

}

}catch (Exception e) {

System.out.println("Error !!"+e);

}

}

\*/

}

# 3- productServlet Servlet

package Servlets;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import DAL.Product\_DAL;

/\*\*

\* Servlet implementation class productServlet

\*/

public class productServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

Product\_DAL pDal;

public void init() {

pDal= new Product\_DAL();

}

public productServlet() {

super();

// TODO Auto-generated constructor stub

}

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

doGet(request, response);

}

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

try {

getProduct(request, response);

} catch (SQLException | IOException | ServletException e) {

System.out.println("get Product: call error!");

e.printStackTrace();

}

}

private void getProduct(HttpServletRequest request, HttpServletResponse response)

throws SQLException, IOException, ServletException {

String pid="";

pid = request.getParameter("product\_id");

List<Object[]> listProduct = pDal.getProduct(pid);

System.err.println("Type is: "+listProduct.getClass());

for(Object[] k:listProduct) {

System.out.println(k[0]);

System.out.println(k[1]);

}

request.setAttribute("listProduct", listProduct);

if(listProduct.isEmpty()) { // To indcate no recourd is found

request.setAttribute("start", "none");

}

request.setAttribute("id\_no", pid);

RequestDispatcher dispatcher = request.getRequestDispatcher("product\_info.jsp");

dispatcher.forward(request, response);

//response.sendRedirect("Classes.jsp");

}

}

# 4- product\_info.jsp

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

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

<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8" isELIgnored="false"%>

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

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

<style type="text/css">

body{

background-color: #540B0E;

}

h1{

text-align: center; color: #EDDDD4;

font-family: Segoe UI;

font-size: 40px;

}

hr.new5 {

margin-top: -30px;

margin-left: 20%;

margin-right: 20%;

border: 1px solid #EDDDD4;

border-radius: 10px;

}

form{

text-align: center;

}

#span1{

display: inline-block;

text-align: left;

color: #EDDDD4;

font-family: Segoe UI;

font-size: 20px;

padding: 2px 10px;

padding-bottom: 20px;

}

input[type=text],input[type=password]{

width: 200px;

padding: 3px 10px;

margin: 8px 0;

box-sizing: border-box;

font-family: Segoe UI;

font-size: 15px;

}

input[type=button], input[type=submit], input[type=reset] {

background-color: #197278;

border: none;

color: #EDDDD4;

padding: 3px 30px;

text-decoration: none;

margin: 4px 2px;

cursor: pointer;

font-family: Segoe UI;

font-size: 20px;

}

table{

text-align: center; color: #EDDDD4;

font-family: Segoe UI;

font-size: 20px;

border: 1px solid #EDDDD4;

border-radius: 10px;

}

</style>

</head>

<body>

<h1>Product information</h1>

<hr class="new5">

<form action="product\_info" class="form">

<span id="span1">

Product ID

<%

String x="";

if(request.getAttribute("id\_no")==(null)){

x="";

}

else{

x=(String)request.getAttribute("id\_no");

}

%>

<input type="text" placeholder="Product ID" name="product\_id" value="<%=x%>" ><br/>

</span>

<br/>

<input type="submit" value="Check">

</form>

<div align="center">

<table border="1" cellpadding="10">

<caption><h2>Product information</h2></caption>

<tr>

<th>ID</th>

<th>Name</th>

<th>Price</th>

</tr>

<c:forEach var="user" items="${listProduct}">

<tr>

<td><c:out value="${user[0]}" /></td>

<td><c:out value="${user[1]}" /></td>

<td><c:out value="${user[2]}" /></td>

</tr>

</c:forEach>

<%

if(request.getAttribute("start") == "none" ){

%> <div style="text-align: center; color: #EDDDD4;

font-family: Segoe UI;

font-size: 20px;"> No Recourd Found!! </div> <%

}

%>

</table>

</div>

</body>

</html>

# 5- Web.xml File

<!DOCTYPE web-app PUBLIC

"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"

"http://java.sun.com/dtd/web-app\_2\_3.dtd" >

<web-app>

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

<servlet>

<description></description>

<servlet-name>product\_Servlet</servlet-name>

<display-name>productServlet</display-name>

<description></description>

<servlet-class>Servlets.productServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>product\_Servlet</servlet-name>

<url-pattern>/product\_info</url-pattern>

</servlet-mapping>

</web-app>

# 6- pom.xml Files

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4\_0\_0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>test1</groupId>

<artifactId>practice\_2.14-Prodict\_ID\_Retreving</artifactId>

<packaging>war</packaging>

<version>0.0.1-SNAPSHOT</version>

<name>practice\_2.14-Prodict\_ID\_Retreving Maven Webapp</name>

<url>http://maven.apache.org</url>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>3.8.1</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.servlet.jsp/javax.servlet.jsp-api -->

<dependency>

<groupId>javax.servlet.jsp</groupId>

<artifactId>javax.servlet.jsp-api</artifactId>

<version>2.3.1</version>

<scope>provided</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.servlet/jstl -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.servlet/servlet-api -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>servlet-api</artifactId>

<version>2.5</version>

<scope>provided</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>8.0.26</version>

</dependency>

<!-- https://mvnrepository.com/artifact/javax.servlet/jstl -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

</dependencies>

<build>

<finalName>practice\_2.14-Prodict\_ID\_Retreving</finalName>

</build>

</project>