**Write up:**

Step 1: Eclipse as the IDE

Step 2: Apache Tomcat as the web server

Step 3: MySQL Connector for JDBC functionality

Step 4: Create an HTML page to take in a product ID

Step 5:  Set up JDBC to work with the application

Step 6: Create a servlet that will take the product ID and use JDBC to query the database for the product.

Step 7: If the product is found, the servlet will display the product details, otherwise it will show an error message

**Source Code:**

//ServletRetrive

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

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("/ProductRetrive")

public class ProductRetrive extends HttpServlet{

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

String url="jdbc:mysql://localhost:3306/products";

String uname="root";

String pass="";

response.setContentType("text/html");

String pId = request.getParameter("productid");

PrintWriter out = response.getWriter();

String query="select \* from product where p\_id=?";

out.print("<h1>Displaying the Product Details...</h1>");

out.print("<table border='1'><tr><th>Product Id</th><th>Product Name</th><th>quantity</th><th>bill</th></tr>");

try {

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

Connection dbCon = DriverManager.getConnection(url, uname, pass);

PreparedStatement st= dbCon.prepareStatement(query);

st.setString(1, pId);

ResultSet rs =st.executeQuery();

while(rs.next()) {

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

out.println(rs.getInt(1));

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

out.print("<td>");

out.print(rs.getString(2));

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

out.print("<td>");

out.print(rs.getInt(3));

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

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

}

}

catch(Exception e){

System.out.println("Some Issue : "+ e.getMessage());

}

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

}

//index.html:

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h1 style="background-color:*powderblue*;">user credentials</h1>

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

<input type=*"text"* name=*"productid"* placeholder=*"enter the productid"*>

<button>Submit</button>

</form>

</body>

</html>

Output:





