**Retrieving the Product Details Using the Product ID**

DESCRIPTION

**Project objective:**

Create a servlet-based application that shows a form to enter a product ID. The product ID is then validated, and product details are retrieved from the database and displayed to the user. You need to create a product table in MySQL and prepopulate it with data. Use JDBC to do all database processing.

**Background of the problem statement:**

As a part of developing an e-commerce web application, the admin backend requires a module that can retrieve product information based on the product ID.

**You must use the following:**

● Eclipse as the IDE

● Apache Tomcat as the web server

● MySQL Connector for JDBC functionality

**Following requirements should be met:**

● Create an HTML page to take in a product ID

● Set up JDBC to work with the application

● Create a servlet that will take the product ID and use JDBC to query the database for the product

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

● Document the step-by-step process involved in completing this task.

**SOURCE CODE**

**login.java:-**

package com.anand.training;

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;

//@SuppressWarnings({ "unused", "serial" })

@WebServlet("/login")

public class Login extends HttpServlet{

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

String url="jdbc:mysql://localhost:3306/mphasis\_practice";

String uname="root";

String pass="";

response.setContentType("text/html");

String pId = request.getParameter("Product\_Id");

PrintWriter out = response.getWriter();

String query="SELECT \* FROM `product` WHERE ProductId=?";

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();

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

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

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.getString(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="UTF-8">

<title>Product Id</title>

</head>

<body>

<h1>Product Id</h1>

<hr>

<form action="login">

<input type="text" name="Product\_Id" placeholder="Product\_Id"><br>

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

</form>

</body>

</html>