# 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 pld = 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, pld);
          ResultSet rs =st.executeQuery();
          out.print("<h1>Displaying the Product Details...</h1>");
                    out.print("Product IdProduct
NameProduct Price");
```

```
while(rs.next()) {
               out.print("");
               out.println(rs.getInt(1));
               out.print("");
               out.print("");
               out.print(rs.getString(2));
               out.print("");
               out.print("");
               out.print(rs.getString(3));
               out.print("");
               out.print("");
                    }
             }
             catch(Exception e){
                    System.out.println("Some Issue: "+ e.getMessage());
             }
             out.print("");
      }
}
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>
```