Retrieving the Product Details Using the Product ID.

**//Servlet**

**import** java.io.IOException;

**import** java.io.InputStream;

**import** java.io.PrintWriter;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.util.Properties;

**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** com.Product.DBConnection;

/\*\*

\* Servlet implementation class ProductDetails

\*/

@WebServlet("/ProductDetails")

**public** **class** ProductDetails **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** ProductDetails() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// **TODO** Auto-generated method stub

**try** {

PrintWriter out = response.getWriter();

out.println("<html><body>");

InputStream in = getServletContext().getResourceAsStream("/WEB-INF/config.properties");

Properties props = **new** Properties();

//props.load(in);

//connection information

DBConnection conn = **new** DBConnection("jdbc:mysql://localhost:3306/Product", "root", "Suru632kulA#");

Statement stmt = conn.getConnection().createStatement(ResultSet.***TYPE\_SCROLL\_INSENSITIVE***, ResultSet.***CONCUR\_READ\_ONLY***);

//query the table and get all information

ResultSet rst = stmt.executeQuery("select \* from product.product\_details");

//find what the user typed into the search box

String productSearch = request.getParameter("search");

//out.println(productSearch);

//user hasn't typed anything so display table

**if**(productSearch == **null**)

{

out.println("The following are the elements in the Product table" + "<Br>" + "<Br>");

//simple while loop to print all elements in table

**while** (rst.next()) {

out.println(rst.getInt("ID") + ": " + rst.getString("name") + " " + " costs: $" + rst.getDouble("price") + "<Br>");

}

}

//user typed something

**else**

{

//select the row corresponding to the id number

String sql\_res= "select \* from product.product\_details where id=" + productSearch;

ResultSet inTable = stmt.executeQuery(sql\_res);

//if not empty then print all product details

**if**(inTable.next())

out.println(inTable.getInt("ID") + ": " + inTable.getString("name") + " " + " costs: $" + inTable.getDouble("price") + "<Br>");

//empty so print error message

**else**

out.println("There was no element with product ID: " + productSearch + " found in the table, please try again");

}

stmt.close();

out.println("</body></html>");

conn.closeConnection();

} **catch** (ClassNotFoundException e) {

e.printStackTrace();

} **catch** (SQLException e) {

e.printStackTrace();

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

//Java class

**package** com.Product;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**public** **class** DBConnection {

**private** Connection connection;

**public** DBConnection(String dbURL, String user, String pwd) **throws** ClassNotFoundException, SQLException{

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

**this**.connection = DriverManager.*getConnection*(dbURL, user, pwd);

}

**public** Connection getConnection(){

**return** **this**.connection;

}

**public** **void** closeConnection() **throws** SQLException {

**if** (**this**.connection != **null**)

**this**.connection.close();

}

}

//html

<!DOCTYPE html>

<html>

<head>

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

<title>Retrieve Product Details using ID</title>

</head>

<body>

<a href=*"list"*>Click here to view the table</a>

<br>

<br>

<form name=*"loginForm"* method=*"post"* action=*"list"*>

Enter the product id number of the pet you would like to search for:<br>

<input type=*"text"* name=*"search"* /> <br /> <input type=*"submit"*

value=*"Submit"* />

</body>

</html>

//File config.properties

url=jdbc:mysql://localhost:3306/Product

userid=root

password=Suru632kulA#