

Phase-2 Practice Project

Retrieving the Product Details Using the Product ID

Source code: HTML:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="/ISO-8859-1">
<title>Product Details</title>
</head>
<body>
<form name=ID method="GET" action="ProductDetails" id="form1"> <label for="ID">Product ID :
<input type="text" id="id" name="ID"></label><br><br>
<button type="submit" form="form1" value="Submit">Submit</button>
</form>
</body>
</html>
```

Connection:

```
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();
    }
}
```

Servlet:

```
package com.product;
import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
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.mysql.cj.jdbc.result.ResultSetMetaData;
```

```
import com.mysql.cj.xdevapi.Statement;
```

```
/**
```

```
 * 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
```

```
int ID = Integer.parseInt(request.getParameter("ID"));
```

```
try {
```

```
    PrintWriter out = response.getWriter();
```

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

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

```
    Properties props = new Properties();
```

```
    props.load(in);
```

```
    DBConnection conn = new DBConnection(props.getProperty("url"),  
props.getProperty("userid"), props.getProperty("password"));
```

```
    PreparedStatement stmt = conn.getConnection().prepareStatement("select * from  
eproduct where ID = ?");
```

```
    stmt.setInt(1,ID);
```

```
    out.print("<table width=75% border=1");
```

```
    out.print("<caption><h1> Product Details :</h1></caption>");
```

```
    ResultSet rs=stmt.executeQuery(); ResultSetMetaData rsmd =  
rs.getMetaData();
```

```
    int totalColumn = rsmd.getColumnCount();
```

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

```

        for(int i=1;i<=totalColumn;i++) {
            out.print("<th>" + rsmd.getColumnName(i) + "</th>")
        }

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

        while(rs.next()) {
            out.print("<tr><td>" + rs.getInt(1) + "</td><td>" + rs.getString(2) + "</td><td>" + rs.getBigDecimal(3) + "</td><td>" + rs.getDate(4) + "</td></tr>");

        }

        out.print("</table>");
    } catch
        (ClassNotFoundException
         on 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);

```

}

}