**Practice project**

Retrieving the Product Details Using the Product ID

Code:

Index.html

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form method=*"get"* action=*"GetProductServlet"*>

Enter Product ID(1-5) <Input type=*"text"* name=*"txtID"*>

<input type=*"submit"* value=*"Click"*>

</body>

</html>

DBConnection class:

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

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

**static** Connection *con*=**null**;

**public** **static** Connection getDBConnection() {

**try**{

//step1 load the driver class

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

//step2 create the connection object

*con*=DriverManager.*getConnection*("jdbc:mysql://localhost:3306/Work", "Work","Simplilearn@123");

}

**catch**(Exception e) {

e.printStackTrace();

}

**return** *con*;

}

}

GetProductServlet servlet:

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.ResultSetMetaData;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class GetProductServlet

\*/

@WebServlet("/GetProductServlet")

**public** **class** GetProductServlet **extends** HttpServlet {

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

/\*\*

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

\*/

**public** GetProductServlet() {

**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

PrintWriter out = response.getWriter();

**int** id=Integer.*parseInt*(request.getParameter("txtID"));

**try** {

//2) Create Con Connection

Connection con=DBConnection.*getDBConnection*();

PreparedStatement ps=con.prepareStatement("select \* from products where id=?");

ps.setInt(1,id);

out.print("<table width=25% border=1>");

out.print("<h2>Result:</h2>");

ResultSet rs=ps.executeQuery();

/\* Printing column names \*/

ResultSetMetaData rsmd=rs.getMetaData();

**while**(rs.next())

{

out.print("<tr>");

out.print("<td>"+rsmd.getColumnName(1)+"</td>");

out.print("<td>"+rs.getInt(1)+"</td></tr>");

out.print("<tr><td>"+rsmd.getColumnName(2)+"</td>");

out.print("<td>"+rs.getString(2)+"</td></tr>");

out.print("<tr><td>"+rsmd.getColumnName(3)+"</td>");

out.print("<td>"+rs.getBigDecimal(3)+"</td></tr>");

}

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

}

**catch**(Exception e) {

e.printStackTrace();

}

}

}

Web.xml:

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee; http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd"* id=*"WebApp\_ID"* version=*"3.0"*>

<display-name>ProductDetails</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

</welcome-file-list>

</web-app>