JDBC Connections, Statements, and Result Sets

//Creating an HTML page index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>JDBC Statements and Resultsets</title>
</head>
<body>
<a href="list">Product Info</a><br>
</body>
</html>
```

Creating a DBConnection class to initiate a JDBC connection in code package com.ecommerce;

```
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)
```


//Creating a config.properties file to storeJDBC credentials

url=jdbc:mysql://localhost:3306/ecommerce userid=root password=SqlPr@9306

```
import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter;
import java.math.BigDecimal;
import java.sql.CallableStatement;
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.ecommerce.DBConnection;
public class ProductDetails extends HttpServlet {
     private static final long serialVersionUID = 1L;
  public ProductDetails() {
     super();
}
protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {
          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"),
                                  3
```

```
props.getProperty("password"));
               Statement stmt =
conn.getConnection().createStatement(ResultSet.TYPE SCROLL I
NSENSITIVE, ResultSet.CONCUR READ ONLY);
               stmt.executeUpdate("insert into eproduct (name,
price, date added) values ('New Product', 17800.00, now())");
               ResultSet rst = stmt.executeQuery("select * from
eproduct");
               while (rst.next()) {
                   out.println(rst.getInt("ID") + ", " +
rst.getString("name") + "<Br>");
               stmt.close();
               out.println("</body></html>");
               conn.closeConnection();
          } catch (ClassNotFoundException e) {
               e.printStackTrace();
          } catch (SQLException e) {
               e.printStackTrace();
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {
         // TODO Auto-generated method stub
         doGet(request, response);
}
```

//Configuring web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app 4 0.xsd"
id="WebApp ID" version="4.0">
 <display-name>JDBC Statements and Resultsets</display-name>
 <welcome-file-list>
  <welcome-file>index.html</welcome-file>
  <welcome-file>index.htm</welcome-file>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>default.html</welcome-file>
  <welcome-file>default.htm</welcome-file>
  <welcome-file>default.jsp</welcome-file>
 </welcome-file-list>
 <servlet>
  <servlet-name>ProductDetails</servlet-name>
  <servlet-class>ProductDetails</servlet-class>
 </servlet>
 <servlet-mapping>
  <servlet-name>ProductDetails</servlet-name>
  <url-pattern>/list</url-pattern>
 </servlet-mapping>
</web-app>
```