JDBC Connections, Statements, and ResultSets

```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>
```

DBConnection.java

```java
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) throws
ClassNotFoundException, SQLException {

                Class.forName("com.mysql.jdbc.Driver");
                this.connection = DriverManager.getConnection(dbURL, user,
pwd);
        }
```

```java
        public Connection getConnection() {
                return this.connection;
        }

        public void closeConnection() throws SQLException {
                if (this.connection != null)
                        this.connection.close();
        }
}
```

config.properties

```
url=jdbc:mysql://localhost:3306/ecommerce
userid=root
password=root
```

ProductDetails.java

```java
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;
```

```java
@WebServlet("/ProductDetails")
public class ProductDetails extends HttpServlet {
    private static final long serialVersionUID = 1L;

    public ProductDetails() {
        super();
        // TODO Auto-generated constructor stub
    }

    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);

            DBConnection conn = new
DBConnection(props.getProperty("url"), props.getProperty("userid"),
props.getProperty("password"));
            Statement stmt =
conn.getConnection().createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
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();
```

```java
                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);
    }

}
```

web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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>
```

```xml
  <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>
```