

Stored Procedures and Exception Handling

Index.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>JDBC Setup</title>
  </head>
  <body>
    <a href="init">Initialize JDBC</a>
    <br>
  </body>
</html>
```

DBConnection.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);
    }
}
```

```

        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

```

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;

@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"));
        CallableStatement stmt =
conn.getConnection().prepareCall("{call add_product(?, ?)}");
        stmt.setString(1, "new product");
        stmt.setBigDecimal(2, new BigDecimal(1900.50));
        stmt.executeUpdate();

        out.println("Stored procedure has been executed.<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);
    }
}

```

web.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 Stored Procedures</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>

```