

3. Demonstrate Connection, Statement, and ResultSet in JDBC.

Index.html:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<a href="DemoJDBC">Product Info</a>
<br>
</body>
</html>
```

Servlet code

```
package Abc;

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;
```

```
@WebServlet("/DemoJDBC")
```

```

public class DemoJDBC extends HttpServlet {
    private static final long serialVersionUID = 1L;

    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_INSEN
SITIVE,
                ResultSet.CONCUR_READ_ONLY);
            stmt.executeUpdate("insert into eproduct (name, price,
date_added) values ('New Product',17890.00, 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();
        }
    }
}

```

Database connection code

```
package Abc;

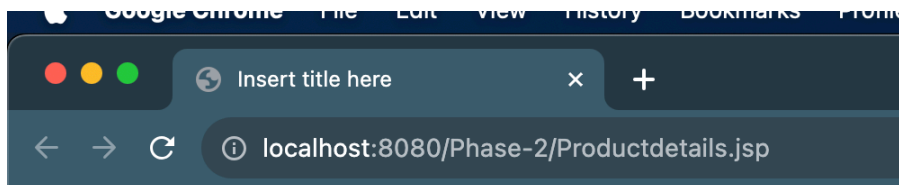
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class DBconnection {
    private Connection connection;

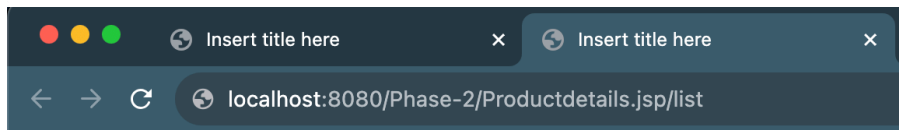
    public DBconnection(String dbURL, String user, String pwd) throws
    ClassNotFoundException, SQLException {
        Class.forName("com.mysql.jdbc.Driver");
        this.connection = DriverManager.getConnection(dbURL, user,
pwd);
    }

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

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



Product Info



- 1.Acer laptop
- 2.Macbook laptop
- 3.dell laptop
- 4.HP laptop
- 5.Lenovo laptop