

LAB 5: EL, JSTL



Mục tiêu:

Kết thúc bài thực hành này bạn có khả năng

- ✓ Sử dụng EL (Expression Language)
- ✓ Sử dụng các bộ thư viện JSTL (Java Standard Tag Library)

PHẦN I

Sử dụng EL tạo các web app như sau

Bài 1: (1.5 điểm)

EL Expression

Concept	Expression	Result
Cộng	<code>\${5+5}</code>	10
Trừ	<code>\${5-5}</code>	0
Nhân	<code>\${5*5}</code>	25
Chia	<code>\${5/5}</code>	1.0

```
<body>
  <h1>EL Expression</h1>
  <table border="1">
    <tr>
      <td>Concept</td>
      <td>Expression</td>
      <td>Result</td>
    </tr>
    <tr>
      <td>Cộng</td>
      <td>${"5"}+5</td>
      <td>${5+5}</td>
    </tr>
    <tr>
      <td>Trừ</td>
      <td>${"5"}-5</td>
      <td>${5-5}</td>
    </tr>
    <tr>
      <td>Nhân</td>
      <td>${"5"}*5</td>
      <td>${5*5}</td>
    </tr>
    <tr>
      <td>Chia</td>
      <td>${"5"}/5</td>
      <td>${5/5}</td>
    </tr>
  </table>
</body>
```

Bài 2: (1.5 điểm)

Calculator

So1:

So2:

Tổng 2 số: 9

```
<body>
    <h1>Calculator</h1>
    <form>
        So1: <input name="txtNum1" value="{param.txtNum1}" /><br/>
        So2: <input name="txtNum2" value="{param.txtNum2}" /><br/>
        <input type="submit" value="Cong" />
        <h1>Tổng 2 số: {param.txtNum1 + param.txtNum2}</h1>
    </form>
</body>
```

PHẦN II

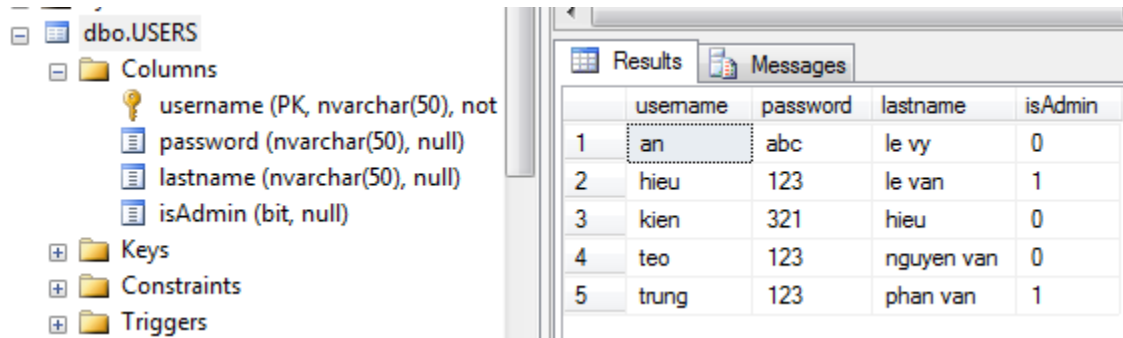
Sử dụng các bộ thư viện JSTL tạo web app sau:

Bài 1: SQL Tag không tham số (3 điểm)

Load data

No.	Username	Password	Lastname
1	an	abc	le vy
2	hieu	123	le van
3	kien	321	hieu
4	teo	123	nguyen van
5	trung	123	phan van

Database:



	username	password	lastname	isAdmin
1	an	abc	le vy	0
2	hieu	123	le van	1
3	kien	321	hieu	0
4	teo	123	nguyen van	0
5	trung	123	phan van	1

```
<%@taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql" %>
<%@taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<html>
<...4 lines />
<body>
    <h1>Load data</h1>
    <sql:setDataSource driver="com.microsoft.sqlserver.jdbc.SQLServerDriver"
        url="jdbc:sqlserver://localhost:1433;databaseName=CNC"
        user="sa" password=""
        var="con"/>
    <sql:query dataSource="${con}" var="rs">
        select * from USERS
    </sql:query>
    <table border="1">
        <tr>
            <td>No.</td><td>Username</td><td>Password</td><td>Lastname</td>
        </tr>
        <c:set var="count" value="0"/>
        <c:forEach var="dong" items="${rs.rows}">
            <tr>
                <c:set var="count" value="${count+1}"/>
                <td>${count}</td>
                <td>${dong.username}</td>
                <td>${dong.password}</td>
                <td>${dong.lastname}</td>
            </tr>
        </c:forEach>
    </table>
</body>
</html>
```

Bài 2: SQL Tag có tham số (4 điểm)

Load data

Username:

Password:

Lastname:

No.	Username	Password	Lastname
1	an	abc	le vy
2	hieu	123	le van
3	kien	321	hieu
4	teo	123	nguyen van
5	trung	123	phan van

```

10 <@taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
11 <@taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql" %>
12 <html>
13 <...4 lines />
17 <body>
18 <h1>Load data</h1>
19 <form>
20     Username: <input type="text" name="txtUsername" value="" /><br>
21     Password: <input type="password" name="txtPassword" value="" /><br>
22     Lastname: <input type="text" name="txtLastname" value="" /><br>
23     <input type="submit" value="Insert" name="action" />
24 </form>
25 <sql:setDataSource driver="com.microsoft.sqlserver.jdbc.SQLServerDriver"
26                    url="jdbc:sqlserver://localhost:1433;databaseName=CNC"
27                    user="sa" password=""
28                    var="con"/>
29 <c:if test="${not empty param.txtUsername}">
30 <sql:update dataSource="${con}">
31     Insert into USERS(username,password,lastname) values(?,?,?)
32     <sql:param value="${param.txtUsername}"/>
33     <sql:param value="${param.txtPassword}"/>
34     <sql:param value="${param.txtLastname}"/>
35 </sql:update>
36 </c:if>

```

```
37 <sql:query dataSource="${con}" var="rs">
38     select * from USERS
39 </sql:query>
40 <table border="1">
41     <tr>
42         <td>No.</td><td>Username</td><td>Password</td><td>Lastname</td>
43     </tr>
44     <c:set var="count" value="0"/>
45     <c:forEach var="dong" items="${rs.rows}">
46         <tr>
47             <c:set var="count" value="${count+1}"/>
48             <td>${count}</td>
49             <td>${dong.username}</td>
50             <td>${dong.password}</td>
51             <td>${dong.lastname}</td>
52         </tr>
53     </c:forEach>
54 </table>
55 </body>
56 </html>
```