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populate <html:options> with AJAX response

Deeps Mistry
Ranch Hand
Posts: 189

posted 7 years ago   +1   Quote   Report

Hi,

I have two drop down list. On selection of a value in the first drop down list, the second drop down list should automatically get populated.

For this i am using AJAX + struts 1.1

I am calling the ajax function on change of the 1st drop down list. In the ajax function am making a call to my action class, which does the fetching from the database and sends the response back to the jsp.

I am getting the response in my jsp but **I am not able to populate it in my <html:options> tag.**

My jsp page:

```
1   <tr>
2                  <td  ><label>Customer Name</label></td>
3                  <td >[b]<html:select name="CustPOForm" property="selCust
4                      <html:options property="arrCustName" name="CustP
5                  </html:select>[/b]
6                  </td>
7                  <td  ><label>Order Quantity</label></td>
8              </tr>
9              <tr>
10                 <td ><label>Customer P.O. No.</label></td>
11                 <td >
12                 [b]<html:select property="selPONO" name="CustPOForm"
13                     <html:options />
14                 </html:select>[/b]
15                 </td>
16
17                 <td></td>
18              </tr>
```

AJAX function:

```
1   function ajaxFunction(value)
2   {
3   //Do the Ajax call
4
5    url = "http://localhost:8080/struts-blank/custPO.do?method=getPONO&custName
6
7       if (window.XMLHttpRequest) { // Non-IE browsers
8         req = new XMLHttpRequest();
9         req.onreadystatechange = processStateChange;
10        try {
11          req.open("GET", url, true); //was get
12          alert('open')
13        } catch (e) {
14          alert("Problem Communicating with Server\n"+e);
15        }
16      req.send(null);
17      } else if (window.ActiveXObject) { // IE
18
19        req = new ActiveXObject("Microsoft.XMLHTTP");
20        if (req) {
21          req.onreadystatechange = processStateChange;
22          req.open("GET", url, true);
23          req.send();
24        }
25      }
26    }
27  }
28
```

```
29        function processStateChange() {
30
31            if (req.readyState == 4) { // Complete
32            if (req.status == 200) { // OK response
33              alert('ready')
34              alert("Ajax response:"+req.responseText);
35              var pono = req.responseText;
36              //var splitPONO = pono.split(",");
37             // alert(splitPONO.length)
38              //document.getElementById('pono').options.length = splitPONO.length;
39            document.getElementById("selectID").innerHTML = req.responseText;
40
41
42            } else {
43              alert("Problem with server response:\n " + req.responseText);
44            }
45          }
        }
      }
```

Action class:

```
1    public ActionForward getPONO(ActionMapping mapping,
2              ActionForm form,
3              HttpServletRequest request,
4              HttpServletResponse response)
5    throws Exception {
6
7            String strCustName = null;
8            Connection con = null;
9            PreparedStatement pstmt = null;
10           ResultSet rs = null;
11           ArrayList arrPONO = null;
12           String strPONO = null;
13
14           try
15           {
16               CustomerPOMonitorForm objCustomerPOMonitorForm = (CustomerPOMoni
17               strCustName = request.getParameter("custName");
18               System.out.println("Customer Name::"+strCustName);
19               // Setting up the DataSource object
20               sun.jdbc.odbc.ee.DataSource ds  = new sun.jdbc.odbc.ee.DataSou
21               ds.setDatabaseName("PEWFACE");
22
23             // Getting a connection object
24               con = ds.getConnection();
25               String strQuery = "select DISTINCT(PONumber) from PurchaseOrde
26               pstmt = con.prepareStatement(strQuery);
27               pstmt.setString(1, strCustName);
28               rs = pstmt.executeQuery();
29
30                   arrPONO = new ArrayList();
31                   //strPONO = new String();
32                 while(rs.next())
33                 {
34                     arrPONO.add(rs.getString(1));
35
36
37                 }
38
39               request.getSession().setAttribute("PONO", arrPONO);
40               response.setContentType("text/html");
41                 PrintWriter out = response.getWriter();
42
43                 out.println(arrPONO);
44                 out.flush();
45                 out.close();
46                 return null;
47             }
48         catch (SQLException objSQLException) {
49             objSQLException.printStackTrace();
50
51         }
52
53           catch(Exception e)
54           {
55               e.printStackTrace();
56           }
57
58         return mapping.findForward("success");
59       }
```

How do i populate my AJAX response in <html:options> tag?

Please help me out.

Thanks

Aditya Keyal
Ranch Hand

posted 7 years ago

+1   Quote   Report

Posts: 71

the response that is being streamed back should be in the form of

<option>val1</option>
<option>val2</option>
<option>val3</option>

so change the code in the action accordingly..

- Aditya Webservices Blog

Aditya Keyal
Ranch Hand
Posts: 71

posted 7 years ago   +1   Quote   Report

currently the code that you have written returns the objectId of an array. Thats meaningless to the <select>. Your code must change a lot.

Instead of the array use a string buffer. and change the code as shown:

```
 1       // remove this     arrPONO = new ArrayList();
 2                   //strPONO = new String();
 3
 4              StringBuffer buffNo = new StringBuffer()
 5
 6              while(rs.next())
 7              {   buffNo.append("<option>");
 8                  arrPONO.add(rs.getString(1));
 9  buffNo.append(rs.getString(1));
10  buffNo.append("</option>");
11
12
13              }
14
15              request.getSession().setAttribute("PONO", arrPONO);
16              response.setContentType("text/html");
17                PrintWriter out = response.getWriter();
18
19  // remove              out.println(arrPONO);
20  out.println(buffNo.toString());
21                  out.flush();
22                  out.close();
23                  return null;
```

- Aditya Webservices Blog

Deeps Mistry
Ranch Hand
Posts: 189

posted 7 years ago   +1   Quote   Report

> **Aditya Keyal wrote:**
> currently the code that you have written returns the objectId of an array. Thats meaningless to the <select>. Your code must change a lot.
>
> Instead of the array use a string buffer. and change the code as shown:
>
> ```
>  1       // remove this     arrPONO = new ArrayList();
>  2                   //strPONO = new String();
>  3
>  4              StringBuffer buffNo = new StringBuffer()
>  5
>  6              while(rs.next())
>  7              {   buffNo.append("<option>");
>  8                  arrPONO.add(rs.getString(1));
>  9  buffNo.append(rs.getString(1));
> 10  buffNo.append("</option>");
> 11
> 12
> 13              }
> 14
> 15              request.getSession().setAttribute("PONO", arrPONO);
> 16              response.setContentType("text/html");
> 17                PrintWriter out = response.getWriter();
> 18
> 19  // remove              out.println(arrPONO);
> 20  out.println(buffNo.toString());
> 21                  out.flush();
> 22                  out.close();
> 23                  return null;
> ```

Hey..thanks for your prompt reply.
After having done this..how do i populate it in my select tag?
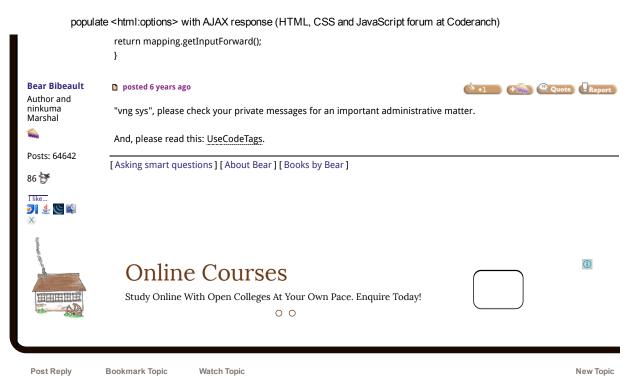
<edit>I tried the following :
document.getElementById("selectID").value = req.responseText;

also,
document.getElementById("selectID").innerHTML= req.responseText;

But no luck. The drop down is not getting populated. 😕

Thanks

Bear Bibeault
Author and
ninkuma
Marshal
🥧

Posts: 64642

86 🐂

I like...

📙 ☕ 🌙 📧
X

📄 posted 7 years ago   +1   📷   Quote   Report

What made you think `value` would be appropriate? That holds the value of the control.

Employ DOM manipulation, innerHTML, or the API for the Select element.

[Asking smart questions] [About Bear] [Books by Bear]

Deeps Mistry
Ranch Hand
Posts: 189

📄 posted 7 years ago   +1   📷   Quote   Report

> **Bear Bibeault wrote:**
> What made you think `value` would be appropriate? That holds the value of the control.
>
> Employ DOM manipulation, innerHTML, or the API for the Select element.

ey

Hey,

I tried using innerHTML, but didnt show anything in the drop down.

Have no idea about DOM manipulation and API. Can you please guide me as to what should i do?

Thanks.

Bear Bibeault
Author and
ninkuma
Marshal
🥧

Posts: 64642

86 🐂

I like...

📙 ☕ 🌙 📧
X

📄 posted 7 years ago   +1   📷   Quote   Report

Select element API:
http://java.sun.com/j2se/1.4.2/docs/guide/plugin/dom/org/w3c/dom/html/HTMLSelectElement.html

Be aware that IE doesn't follow this standard exactly. 🤓

Or, make it easy on yourself and employ jQuery which makes this sort of thing easier. If you download the code for my jQuery book from its web page you'll find examples of creating dynamic dropdowns in the Chapter 8 sample code

You can see the sample code in action here.

[Asking smart questions] [About Bear] [Books by Bear]

Deeps Mistry
Ranch Hand
Posts: 189

📄 posted 7 years ago   +1   📷   Quote   Report

> **Bear Bibeault wrote:**
> Select element API: http://java.sun.com/j2se/1.4.2/docs/guide/plugin/dom/org/w3c/dom/html/HTMLSelectElement.html
>
> Be aware that IE doesn't follow this standard exactly. 🤓
>
> Or, make it easy on yourself and employ jQuery which makes this sort of thing easier. If you download the code for my jQuery book from its web page you'll find examples of creating dynamic dropdowns in the Chapter 8 sample code
>
> You can see the sample code in action here.

Hi,
Is there no way out using javascript + AJAX? Cant we create an option element in javascript?

Please help me out.
Thanks

Arpit Purohit
Greenhorn
Posts: 21

📄 posted 7 years ago   +1   📷   Quote   Report

Try following Javascript code snippet (tested on IE6 and Firefox 3.0.8)

```
1   var newOption = document.createElement("option");
2   newOption.value='OptionValue';
3   newOption.text='OptionText';'
4   document.getElementById('SelectID').options.add(newOption);
```

Regards,
Arpit Purohit

Deeps Mistry
Ranch Hand
Posts: 189

posted 7 years ago

> **Arpit Purohit wrote:**
> Try following Javascript code snippet (tested on IE6 and Firefox 3.0.8)
>
> ```
> 1   var newOption = document.createElement("option");
> 2   newOption.value='OptionValue';
> 3   newOption.text='OptionText';'
> 4   document.getElementById('SelectID').options.add(newOption);
> ```

Hey
I tried what you suggested, but now the javascript function is not being called. 🙁
I think some problem with the syntax, but cant figure it out. Also, i am using struts tag. So is it possible to create a <html:options> tag in javascript?

Thanks for your help.

Bear Bibeault
Author and
ninkuma
Marshal

Posts: 64642

86 🐮

I like...

posted 7 years ago

> **Deeps Mistry wrote:**
> Also, i am using struts tag. So is it possible to create a <html:options> tag in javascript?

That makes no sense. Struts tags, just as any other JSP mechanism, operates on the server to generate HTML to send to the browser. Once it leaves the server, it's just plain old HTML.

And yes, you can create options with raw JavaScript. The DOM API I pointed you to, and that Arit gave you sample code for, is the way.

[Asking smart questions] [About Bear] [Books by Bear]

hem raj
Greenhorn
Posts: 11

posted 6 years ago

Please refer this code ....

in js file

```
var req;
function ajaxFunction(value)
{
//Do the Ajax call
url = "<bean:message key="ohc.homeurl" bundle="alias"/>/action.do?method=fillCombo&deptId="+value;
// alert(url);
if (window.XMLHttpRequest) { // Non-IE browsers
req = new XMLHttpRequest();
req.onreadystatechange = processStateChange;
try {
req.open("POST", url, true); //was get
alert('open')
} catch (e) {
alert("Problem Communicating with Server\n"+e);
}
req.send(null);
} else if (window.ActiveXObject) { // IE

// alert("in I.E");
req = new ActiveXObject("Microsoft.XMLHTTP");
// alert(req);

if (req) {
// alert("in side req");
req.onreadystatechange = populateSecondBox;
req.open("POST", url, true);
req.send();
}
```

```
}
}
/* function processMessage() {
alert("function called");
alert("in process "+req.readyState);
if (req.readyState == 4) { // Complete
if (req.status == 200) { // OK response
alert('ready');
alert("Ajax response:"+req.responseText);

document.getElementById("secondBox").innerHTML = req.responseText;


} else {
alert("Problem with server response:\n " + req.responseText);
}

}
}*/
//Callback function
function populateSecondBox()
{
var returnElements;
var flag=0;
document.getElementById('hodBox').options.length = 0;
document.getElementById('secondaryBox').options.length = 0;
var cnt=0;
if (req.readyState == 4)
{ // Complete
if (req.status == 200)
{ // OK response
textToSplit = req.responseText;

if(textToSplit == '803')
{
alert("No select option available on the server")
}
//Split the document
returnElements=textToSplit.split("||")
//Process each of the elements
for ( var i=0; i<returnElements.length-1; i++ )
{
valueLabelPair = returnElements[i].split(";");
if (valueLabelPair[1]!='**' && valueLabelPair[0]!='**')
{
document.getElementById('hodBox').options[i] = new Option(valueLabelPair[1], valueLabelPair[0]);
cnt++;
}
else
break;
}
document.getElementById('secondaryBox').options.length = 0;
var j=0;
for ( var i=cnt+1; i<returnElements.length-1; i++,j++ )
{
valueLabelPair = returnElements[i].split(";");
document.getElementById('secondaryBox').options[j] = new Option(valueLabelPair[1], valueLabelPair[0]);
}
}
}
}
}


in jsp

<html:select property="deptCode" onchange="ajaxFunction(this.value)" styleId="deptBox">
<option value="" selected="selected" ><bean:message key="label.select"/></option>
<html:optionsCollection name=""
property=""
value="deptCode"
label="deptName"/>

<html:select property="hodEcNo" onchange="setEcNo()" styleId="hodBox">
<html:option value="nothing">--Select Department First -</html:option>
```

```
<html:select property="secondaryEcNo" onchange="setEcNo()" styleId="secondaryBox">
<html:option value="nothing">--Select Department First -</html:option>


in Action File


public ActionForward fillCombo(ActionMapping mapping,
ActionForm form,
HttpServletRequest request,
HttpServletResponse response)
throws SQLException,Exception
{

ResultSet rSet = null;
String deptCode=request.getParameter("deptId");

System.out.println("deptCode : "+deptCode);
DataSource ds = (DataSource)getDataSource(request);
DataBase db = new DataBase();
String combo="select ec_no,initcap(e_name) from emp order by initcap(e_name)";
System.out.println("qry : "+combo);
if(db.connectDB(ds,request))
{
rSet = db.getData(combo);


String outputString="Null;--Select--||";
while(rSet.next())
{


outputString=outputString+rSet.getString(1);
outputString=outputString+";";
outputString=outputString+rSet.getString(2);
if (rSet.next())
{
outputString=outputString+"||";
rSet.previous();
}
else
break;
}
outputString=outputString+"||";
System.out.println("output String 1= " + outputString);
outputString=outputString+"**;**||";
outputString= outputString+"Null;--Select--||";
combo="select ec_no,initcap(e_name) from emp order by initcap(e_name)";
rSet = db.getData(combo);
while(rSet.next())
{
outputString=outputString+rSet.getString(1);
outputString=outputString+";";
outputString=outputString+rSet.getString(2);
if (rSet.next())
{
outputString=outputString+"||";
rSet.previous();
}
else
break;
}
outputString=outputString+"||";

response.setContentType("text/html");
PrintWriter out = response.getWriter();
out.println(outputString);

out.flush();
out.close();


}
```

```
return mapping.getInputForward();
}
```

Bear Bibeault
Author and
ninkuma
Marshal

Posts: 64642

86 🐮

I like...

🔲 **posted 6 years ago**   +1   +   Quote   Report

"vng sys", please check your private messages for an important administrative matter.

And, please read this: UseCodeTags.

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