

WEB TECHNOLOGIES AND ITS APPLICATIONS

INDIVIDUAL ACTIVITY:

**Drop-Down list To Display Specific List for Selected Value
Using jQuery, JavaScript, Ajax and Servlet**

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Tool Used: Eclipse IDE



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//Using jQuery

Index.html (Filename)

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-
8"><title>Using jQuery, Ajax and Servlet</title>

<script src="https://code.jquery.com/jquery-1.10.2.js"></script>
<script type="text/javascript">

$(document).ready(function()
{

$('#contries').change(function(event)
{
var name = $('#contries').val();
$.get('AjaxServlet', {countryName : name},
function(responseText)
{
$('#myStates').html('');
$('#myCity').html('');
$('#myCity').append('<option value="state">Select City</option>');
var array = responseText.split(",");
var options = '';
options += '<option value="state">Select State</option>';
for (var i = 0; i < array.length; i++)
{
options += '<option value="" + array[i] + "">' + array[i]+
'</option>';
}
$('#myStates').append(options);
});
});

$('#myStates').change(function(event)
{
```

```

var name = $('#myStates').val();
$.get('AjaxServlet', {stateName : name},
function(responseText)
{
$('#myCity').html('');
var array = responseText.split(",");
var options = '';
options += '<option value="state">Select City</option>';
for (var i = 0; i < array.length; i++)
{
options += '<option value="' + array[i] + '">' + array[i] +
'</option>';
}
$('#myCity').append(options);
});
});

</script>
</head>
<body>
<h4>
Drop-Down list to display specific list for selected value<br>
USing jQuery,Ajax and Servlet/JSP
</h4>

<form>
<table>
<tr>
<td><label>Country</label></td>
<td>:</td>
<td>
<select class="country" id="contries">
<option>Select Country</option>
<option value="usa">United States</option>
<option value="ind">India</option>
<option value="uk">United Kingdom</option>
</select>
</td>
</tr>

<tr>
<td><label>States</label></td>

```

```

<td>:</td>
<td>
<select class="states" id='myStates'>
<option>Select State</option>
</select>
</td>
</tr>

<tr>
<td><label>Cities</label></td>
<td>:</td>
<td>
<select id='myCity'>
<option>Select City</option>
</select>
</td>
</tr>

</table>
</form>

</body>
html>

```

AjaxServlet.java (Filename)

```

package com.servlet;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**Servlet implementation class AjaxServlet*/
@WebServlet("/AjaxServlet")
public class AjaxServlet extends HttpServlet
{
private static final long serialVersionUID = 1L;

```

```
/**Default constructor.*/
public AjaxServlet()
{
// TODO Auto-generated constructor stub
super();
}

/** @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)*/
protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
{
// TODO Auto-generated method stub
doPost(request, response);
}

/** @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)*/
protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException
{
// TODO Auto-generated method stub
String countyName = request.getParameter("countryName");
String stateName = request.getParameter("stateName");
String greetings = "";

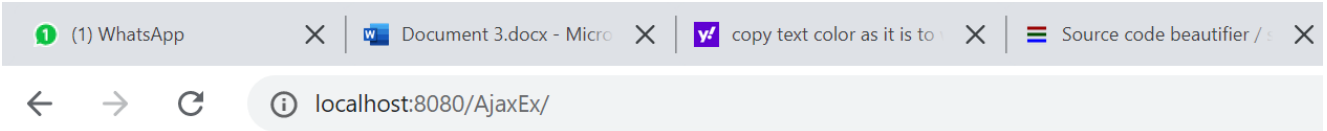
if(countyName !=null && !countyName.equals(""))
{
if(countyName.equalsIgnoreCase("usa")
{
greetings = "California,Texas";
}
else if(countyName.equalsIgnoreCase("ind")
{
greetings = "Karnataka,Tamil Nadu";
}
else if(countyName.equalsIgnoreCase("uk")
{
greetings = "England,Scotland";
}
}
}
```

```
else if(stateName !=null && !stateName.equals(""))
{
    if(stateName.equalsIgnoreCase("California")
    {
        greetings = "San Fancisco,Los Angeles";
    }
    else if(stateName.equalsIgnoreCase("Texas")
    {
        greetings = "Houston,Dallas";
    }
    else if(stateName.equalsIgnoreCase("Karnataka")
    {
        greetings = "Banglore,Mysore";
    }
    else if(stateName.equalsIgnoreCase("Tamil Nadu")
    {
        greetings = "Chennai,Coimbatore";
    }
    else if(stateName.equalsIgnoreCase("England")
    {
        greetings = "London,Manchester";
    }
    else if(stateName.equalsIgnoreCase("Scotland")
    {
        greetings="Glasgow,Dundee";
    }
}

response.setContentType("text/plain");
response.getWriter().write(greetings);

}
}
```

Output of jQuery:

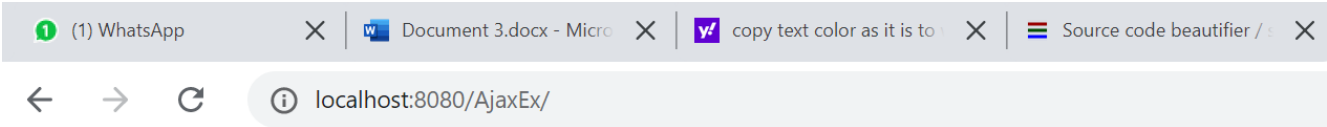


Drop-Down list to display specific list for selected value
USing jQuery,Ajax and Servlet/JSP

Country :

States :

Cities :



Drop-Down list to display specific list for selected value
USing jQuery,Ajax and Servlet/JSP

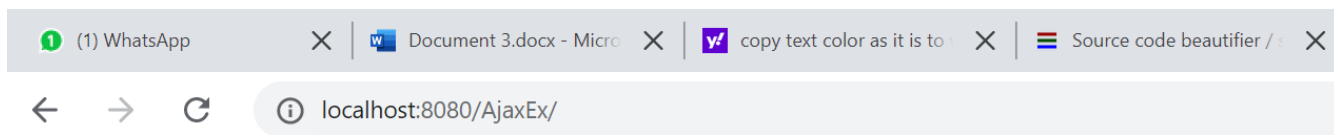
Country :

States :

Cities :

India

United Kingdom

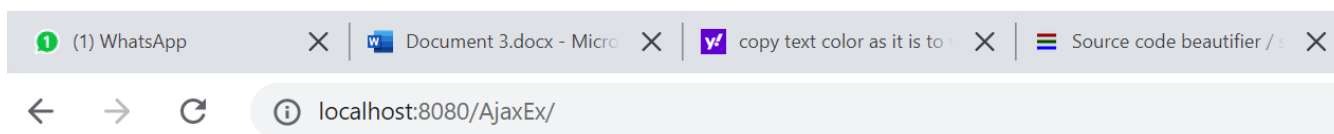


Drop-Down list to display specific list for selected value USing jQuery,Ajax and Servlet/JSP

Country :

States :

Cities :

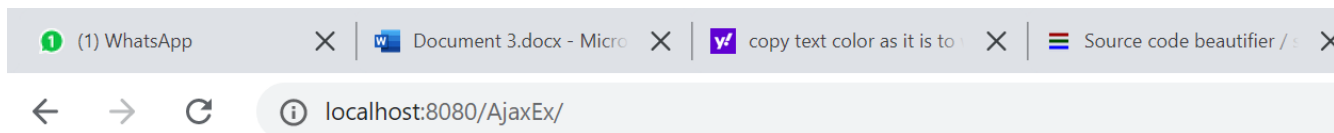


Drop-Down list to display specific list for selected value USing jQuery,Ajax and Servlet/JSP

Country :

States :

Cities :



Drop-Down list to display specific list for selected value USing jQuery,Ajax and Servlet/JSP

Country :

States :

Cities :

//Using JavaScript

Index.html (Filename)

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-
8"><title>Using JavaScript, Ajax and Servlet</title>

<script type="text/javascript">

function ajaxFunction()
{
    var ajaxRequest;
    try
    {
        ajaxRequest = new XMLHttpRequest();
    }
    catch(e)
    {
        try
        {
            ajaxRequest = new ActiveXObject("Msxml2.XMLHTTP");
        }
        catch(e)
        {
            try
            {
                ajaxRequest = new ActiveXObject("Microsoft.XMLHTTP");
            }
            catch(e)
            {
                alert("Please use another browser");
                return false;
            }
        }
    }
}
```

```

}
}
ajaxRequest.onreadystatechange = function()
{
if (ajaxRequest.readyState == 4)
{
var array = ajaxRequest.responseText.split(",");
for (var i = 0; i < array.length; i++)
{
var el = document.createElement("option");
el.text = array[i];
el.value = array[i];
document.getElementById("myStates").add(el);
}
}
}
var element = document.getElementById("contries");
var checkValue = element.options[element.selectedIndex].value;
var select = document.getElementById("myStates");
var length = select.options.length;
for (i = length-1; i >= 0; i--)
{
select.options[i] = null;
}
var e2 = document.createElement("option");
e2.text = 'Select State';
e2.value = 'Select';
select.add(e2);

var queryString = "?countryName=" + checkValue;
ajaxRequest.open("GET", "AjaxServletJs" + queryString, true);
ajaxRequest.send(null);
}

function ajaxFunction1()
{
var ajaxRequest;
try
{
ajaxRequest = new XMLHttpRequest();

```

```

}
catch(e)
{
try
{
ajaxRequest = new ActiveXObject("Msxml2.XMLHTTP");
}
catch(e)
{
try
{
ajaxRequest = new ActiveXObject("Microsoft.XMLHTTP");
}
catch(e)
{
alert("Please use another browser");
return false;
}
}
}
ajaxRequest.onreadystatechange = function()
{
if (ajaxRequest.readyState == 4)
{
var array = ajaxRequest.responseText.split(",");
for (var i = 0; i < array.length; i++)
{
var el = document.createElement("option");
el.text = array[i];
el.value = array[i];
document.getElementById("myCity").add(el);
}
}
var element = document.getElementById("myStates");
var checkValue = element.options[element.selectedIndex].value;
var select = document.getElementById("myCity");
var length = select.options.length;
for (i = length-1; i >= 0; i--)
{
select.options[i] = null;
}
}

```

```

var e2 = document.createElement("option");
e2.text = 'Select City';
e2.value = 'Select';
select.add(e2);

var queryString = "?stateName=" + checkValue;
ajaxRequest.open("GET","AjaxServletJs" + queryString, true);
ajaxRequest.send(null);
}
</script>
</head>
<body>
<h4>
    Drop-Down list to display specific list for selected value<br>
    Using JavaScript,Ajax and Servlet/JSP
</h4>

<form>
<table>
<tr>
<td><label>Country</label></td>
<td>:</td>
<td>
<select class="country" id="contries" onchange="ajaxFunction(); >
<option>Select Country</option>
<option value="usa">United States</option>
<option value="ind">India</option>
<option value="uk">United Kingdom</option>
</select>
</td>
</tr>

<tr>
<td><label>States</label></td>
<td>:</td>
<td>
<select class="states" id='myStates'
onchange="ajaxFunction1();><option>Select State</option>
</select>
</td>
</tr>

```

```
<tr>
<td><label>Cities</label></td>
<td>:</td>
<td>
<select id='myCity'>
<option>Select City</option>
</select>
</td>
</tr>
</table>
</form>

</body>
</html>
```

AjaxServletJs.java (Filename)

```
package com.servlet;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**Servlet implementation class AjaxServlet*/
@WebServlet("/ AjaxServletJs t")
public class AjaxServletJs extends HttpServlet
{
    private static final long serialVersionUID = 1L;

    /**Default constructor.*/
    public AjaxServletJs()
    {
        // TODO Auto-generated constructor stub
        super();
    }
}
```

```
/** @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)*/
protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
{// TODO Auto-generated method stub
doPost(request, response);
}

/** @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)*/protected void
doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
// TODO Auto-generated method stub
String countyName = request.getParameter("countyName");
String stateName = request.getParameter("stateName")
String greetings = "";if(countyName !=null &&
!countyName.equals(""))
{
if(countyName.equalsIgnoreCase("usa")
{
greetings = "California,Texas";
}
else if(countyName.equalsIgnoreCase("ind")
{
greetings = "Karnataka,Tamil Nadu";
}
else if(countyName.equalsIgnoreCase("uk")
{
greetings = "England,Scotland";
}
}

else if(stateName !=null && !stateName.equals(""))
{
if(stateName.equalsIgnoreCase("California")
{
greetings = "San Fancisco,Los Angeles";
}
else if(stateName.equalsIgnoreCase("Texas")
```

```

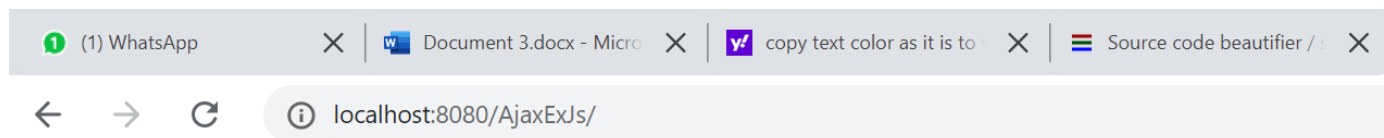
{
greetings = "Houston,Dallas";
}
else if(stateName.equalsIgnoreCase("Karnataka")
{
greetings = "Banglore,Mysore";
}
else if(stateName.equalsIgnoreCase("Tamil Nadu")
{
greetings = "Chennai,Coimbatore";
}
else if(stateName.equalsIgnoreCase("England")
{
greetings = "London,Manchester";
}
else if(stateName.equalsIgnoreCase("Scotland")
{
Greetings="Glasgow,Dundee";
}
}

response.setContentType("text/plain");
response.getWriter().write(greetings);

}
}

```

Output of JavaScript:

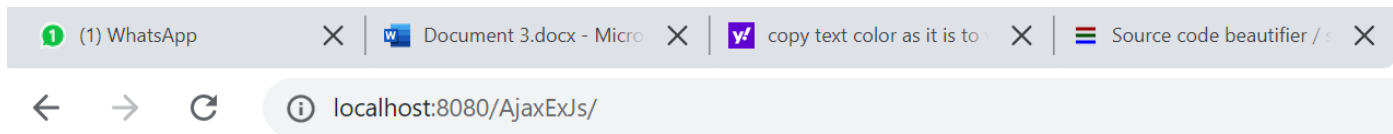


**Drop-Down list to display specific list for selected value
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Country :

States :

Cities :

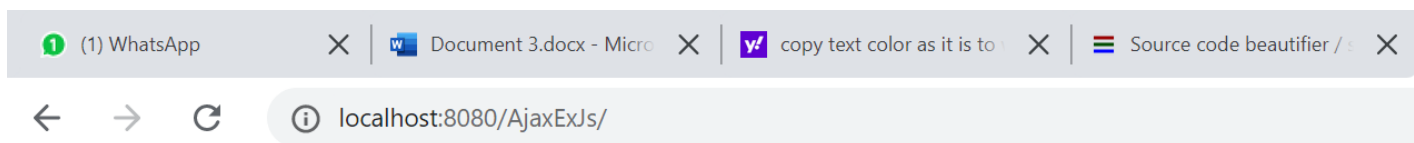


Drop-Down list to display specific list for selected value USing JavaScript,Ajax and Servlet/JSP

Country :

States :

Cities :

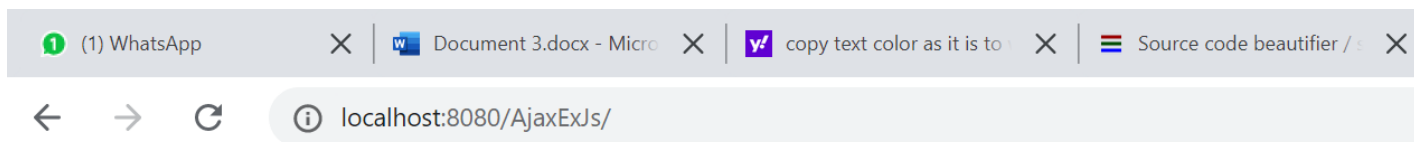


Drop-Down list to display specific list for selected value USing JavaScript,Ajax and Servlet/JSP

Country :

States :

Cities :



Drop-Down list to display specific list for selected value USing JavaScript,Ajax and Servlet/JSP

Country :

States :

Cities :