```
Ajax And Form
 1
 2
 3
    1. Text Box
 4
      [echo.jsp]
 5
         < @ page language="java" contentType="text/html; charset=utf-8" pageEncoding="utf-8"%>
         <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
 6
 7
         <c:set var="data" value="${param.data}" />
 8
         <c:out value="서버는 지금 -- ${data}-- 을 수신했습니다" />
 9
10
      [aiaxdemo.html]
11
         <!DOCTYPE html>
12
         <html>
13
            <head>
               <meta charset="UTF-8">
14
               <title>Insert title here</title>
15
               <script src="js/jquery-3.2.1.min.js"></script>
16
17
               <script>
18
                 var xmlObj;
19
                 $(document).ready(function(){
                    $('#mybtn').click(function(){
20
                      xmlObj = new XMLHttpRequest();
21
22
                      xmlObj.open("GET", "echo.jsp?data=" + $('#data').val(), true);
23
                      xmlObj.onreadystatechange = callback;
24
                      xmlObj.send(null);
25
                    });
                 });
26
27
28
                 function callback(){
29
                    if(xmlObj.readyState ==4 && xmlObj.status == 200){
30
                      $('#output1').text(xmlObj.responseText);
31
32
                 }
33
               </script>
34
            </head>
35
            <body>
36
               <form>
37
                 <input type="text" name="data" id="data">
                 <input type="button" value="Ajax로 송신합니다" id="mybtn">
38
39
               </form>
40
               <!-- 여기에 출력합니다 -->
41
               <div id="output1"></div>
42
            </body>
43
         </html>
44
45
      [ajaxdemo1.html]
         <!DOCTYPE html>
46
47
         <html>
48
            <head>
49
               <meta charset="UTF-8">
50
               <title>Insert title here</title>
51
               <script src="js/jquery-3.2.1.min.js"></script>
52
               <script>
53
                 var xmlObj;
                 $(document).ready(function(){
54
55
                    $('#mybtn').click(function(){
56
                      xmlObj = new XMLHttpRequest();
57
                      xmlObj.open("GET", "echo.jsp?data=" + $('#data').val(), true);
58
                      xmlObj.onreadystatechange = callback;
59
                      xmlObj.send(null);
60
                    });
                 });
61
62
                 function callback(){
63
64
                    if(xmlObj.readyState ==4 && xmlObj.status == 200){
65
                      document.forms[0].output.value = xmlObj.responseText;
66
                    }
67
                 }
```

```
68
                                </script>
  69
                           </head>
   70
                           <body>
                                <form>
   71
                                     <input type="text" name="data" id="data" size="40"><br>
   72
   73
                                     <input type="button" value="Ajax로 송신합니다" id="mybtn"><br>
                                     <input type="text" name="output" size="60">
   74
   75
   76
                           </body>
   77
                     </html>
   78
   79
                [validation.jsp]
  80
                      <jsp:directive.page language="java" contentType="text/html; charset=UTF-8"</pre>
                     pageEncoding="UTF-8" />
  81
                     <jsp:directive.page import="java.util.regex.Pattern" />
  82
                      <jsp:declaration>
                           boolean validate(String str){
  83
  84
                                boolean flag = true;
  85
                                flag =
                                Pattern.matches("^[a-zA-Z0-9][-a-zA-Z0-9._]+@[-a-zA-Z0-9]+(\.[-a-zA-Z0-9]+)*\\ \\ \) (come becomes a constant of the constant 
                                |qov|edu|int|mil|net|org|biz|info|name|museum|coop|aero|[a-zA-Z][a-zA-Z])$", str);
  86
                                return flag;
  87
                           }
  88
                     </jsp:declaration>
  89
                      <%
  90
                           String userdate = request.getParameter("email");
  91
                           boolean flag = validate(userdate);
                           String msg = "You have entered a invalid date.";
  92
  93
                           if(flag) msg = "You have entered a valid date";
  94
                           response.setContentType("text/xml");
                          out.println("<response>");
out.println("<passed>" + Boolean.toString(flag) + "</passed>");
  95
  96
                          out.println("<message>" + msg + "</message>");
  97
  98
                           out.println("</response>");
                     %>
  99
100
101
                [ajaxdemo2.html]
102
                      <!DOCTYPE html>
                     <html>
103
104
                           <head>
105
                                <meta charset="UTF-8">
106
                                <title>Insert title here</title>
107
                                <script src="js/jquery-3.2.1.min.js"></script>
108
                                <script>
109
                                     $(document).ready(function(){
110
                                          $('#email').bind('change', function(){
111
                                               var xmlObj = new XMLHttpRequest();
                                               xmlObj.open("POST", "validation.jsp");
112
113
                                               xmlObj.setRequestHeader("Content-Type","application/x-www-form-urlencoded;cha
                                               rset=utf-8");
114
                                               xmlObj.onreadystatechange = function(){
115
                                                    if(xmlObj.readyState == 4 && xmlObj.status == 200){
116
                                                          var xmlDoc = xmlObj.responseXML;
117
                                                          var passed =
                                                          xmlDoc.getElementsByTagName("passed")[0].firstChild.nodeValue;
118
                                                          var message =
                                                          xmlDoc.getElementsByTagName("message")[0].firstChild.nodeValue;
119
                                                          if(passed == 'true'){
120
                                                               $('#rcvMsg').text(message).css('color', 'green');
121
                                                          }else{
122
                                                               $('#rcvMsg').text(message).css('color', 'red');
123
                                                          }
                                                    }
124
125
126
                                               xmlObj.send("email=" + $('#email').val());
127
                                          });
```

```
128
                   });
129
130
                </script>
131
              </head>
132
             <body>
133
                <h2>Ajax Validation Example</h2>
                Email: <input type="text" id="email" style="font-size:30pt:width:100px;border:solid red
134
                1px" />(@:2012-11-30)<br />
135
                <div id="rcvMsg"></div>
136
              </body>
137
           </html>
138
139
        [validation1.jsp]
           <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
140
141
142
             String key = request.getParameter("key").trim();
             String value = request.getParameter("value").trim();
143
144
             boolean flag = false;
145
             if(key.equals("zipcode")){
                flag = java.util.regex.Pattern.matches("^\d{3}-?\d{3}", value);
146
147
             }else if(key.equals("handphone")){
                flag = java.util.regex.Pattern.matches("^(010|011|016|017|018|019)-\\d{3,4}-\\d{4}\$",
148
                value);
149
             }else if(key.equals("email")){
150
                java.util.regex.Pattern.matches("^[a-zA-Z0-9][-a-zA-Z0-9._]+@[-a-zA-Z0-9]+(\\.[-a-zA-Z0
                -9]+)*\\.(com|gov|edu|int|mil|net|org|biz|info|name|museum|coop|aero|[a-zA-Z][a-zA-Z]
                )$", value);
151
             }
152
             response.setContentType("text/xml");
153
             response.setHeader("cache-control", "no-cache");
             response.setHeader("pragma", "no-cache");
154
155
             response.setDateHeader("Expires", 0);
156
             String msg = "You have entered a invalid " + key + ".";
             if(flag) msg = "You have entered a valid " + key + ".";
157
             out.println("<response>");
158
159
             out.println("<passed>" + Boolean.toString(flag) + "</passed>");
160
             out.println("<message>" + msg + "</message>");
161
             out.println("</response>");
162
           %>
163
164
        [ajaxdemo3.html]
165
           <!DOCTYPE html>
           <html lang="ko">
166
167
           <head>
           <meta charset="UTF-8">
168
169
           <title>Insert title here</title>
170
           <style>
171
             input {font-size:20pt; border:1px solid red; width:400px}
172
           </style>
173
           <script type="text/javascript" src="js/httpRequest.js"></script>
174
           <script type="text/javascript">
175
             var keyword = null;
             function check(key, obj){
176
                keyword = key;
177
178
                var param = "key=" + key + "&value=" + obj.value;
179
                sendRequest("validation1.jsp", param, callback, "get");
180
181
             function callback(){
182
                if(httpRequest.readyState == 4 && httpRequest.status == 200){
183
                   var xmlDoc = httpRequest.responseXML;
                   var root = xmlDoc.firstChild;
184
185
                   var color = "red";
                   var flag = root.childNodes[1].firstChild.nodeValue;
186
187
                   var msg = root.childNodes[3].firstChild.nodeValue;
                   if(flag == "true") color = "blue";
188
                   if(keyword == "zipcode"){
189
```

```
190
                    document.getElementById("zipMsg").innerHTML =
191
                       "<font size='4' color=" + color + ">" + msg + "</font>";
                  }else if(keyword == "handphone"){
192
193
                     document.getElementById("hpMsg").innerHTML =
                       "<font size='4' color=" + color + ">" + msg + "</font>";
194
                  }else if(keyword == "email"){
195
                    document.getElementById("emailMsg").innerHTML =
196
197
                       "<font size='4' color=" + color + ">" + msg + "</font>";
198
                  }
199
               }
200
             }
          </script>
201
202
          </head>
203
          <body>
204
          <h2>Ajax Validation Example1 </h2>
205
               우편번호: <input type="text" id="zipcode" onchange="check('zipcode', this)" /><div
               id="zipMsg"></div><br />
               핸드폰번호: <input type="text" id="hp" onchange="check('handphone', this)" /><div
206
               id="hpMsg"></div><br />
               Email: <input type="text" id="email" onchange="check('email', this)" /><div
207
               id="emailMsg"></div><br />
208
          </body>
209
          </html>
210
211
     2. Radio Button
212
213
       [radio.jsp]
214
          <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
215
          <@@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
216
217
          <c:set var="data" value="${param.data}" />
218
          <c:choose>
219
             <c:when test="${data eq 1}">
220
                <c:set var="outMsg" value="1분 코스가 선택되었습니다" />
221
             </c:when>
222
             <c:when test="${data eq 5}">
                <c:set var="outMsg" value="5분 코스가 선택되었습니다" />
223
224
225
             <c:when test="${data eq 10}">
226
                <c:set var="outMsg" value="10분 코스가 선택되었습니다" />
227
             </c:when>
228
          </c:choose>
229
          <c:out value="${outMsg}" />
230
       [sampleRadio.htm]
231
232
          <!DOCTYPE html>
233
          <html>
234
             <head>
235
                <meta charset="UTF-8">
236
                <title>Insert title here</title>
237
                <script src="js/jquery-3.2.1.min.js"></script>
238
                <script>
239
                  $(document).ready(function(){
                     $('input:radio[name="minutes"]').click(function(){
240
241
                       var data = $('input:radio[name="minutes"]:checked').val();
                       var xmlObj = new XMLHttpRequest();
242
                       xmlObj.open("GET", "radio.jsp?data=" + data, true);
243
244
                       xmlObj.onreadystatechange = function(){
245
                          if(xmlObj.readyState ==4 && xmlObj.status == 200){
246
                            $('#output1').val(xmlObj.responseText.trim());
247
                          }
248
249
                       xmlObj.send(null);
250
                     });
251
                  });
252
                </script>
253
             </head>
```

```
254
             <body>
255
               <form name="test1">
256
                  <input type="radio" name="minutes" value="1" id="rdo1">1분 &nbsp;
257
                  <input type="radio" name="minutes" value="5" id="rdo2">5분 &nbsp;
258
                  <input type="radio" name="minutes" value="10" id="rdo3">10분<P>
259
                  출력: <input type="text" id="output1" size="40">
260
               </form>
261
             </body>
262
          </html>
263
264
       [radio1.jsp]
265
          <%@ page language="java" contentType="text/html; charset=utf-8" pageEncoding="utf-8"%>
266
          <%
             String msg = "그러면, 입력해주세요 <input type=\"text\" name=\"ok\" value=\"\">";
267
268
             out.println(msg);
          %>
269
270
271
       [sampleRadio1.html]
272
          <!DOCTYPE html>
273
          <html lang="ko">
274
          <head>
275
          <meta charset="utf-8" />
276
          <title>Ajax Test using Radio Button</title>
277
          <script src="js/httpRequest.js"></script>
278
279
             window.addEventListener("load", setup, false);
280
             function setup(){
281
               document.getElementById('yes').addEventListener("click", Click, false);
282
283
             function Click(evt){
284
               if(evt.target.value == "yes"){
                  sendRequest("msg1.jsp", ", getMsg, "post");
285
286
               }
287
288
             function getMsg(evt){
289
               if(httpRequest.readyState == 4 && httpRequest.status == 200){
290
                    var msg = httpRequest.responseText;
                    msg = msg.split('<input type="text" name="ok" value=""&gt;');
291
292
                    msg = msg.join('<input type="text" name="ok" value="">');
293
                    document.getElementById("output1").innerHTML = msg;
294
               }
295
296
          </script>
297
          </head>
298
          <body>
299
          YES 가 체크될 때만 처리
300
             <form>
301
               <input type="radio" name="yesno" value="yes" id="yes"> YES &nbsp;
302
               <input type="radio" name="yesno" value="no" id="no" checked> NO
303
             </form>
304
             <!-- 여기에 출력 -->
305
             <div id="output1"></div>
306
          </body>
307
          </html>
308
309
310
     3. Link
311
       [msg1.xml]
312
          <?xml version="1.0" encoding="utf-8"?>
313
          <root>test1입니다.</root>
314
315
       [msq2.xml]
316
          <?xml version="1.0" encoding="utf-8"?>
317
          <root>test2입니다.</root>
318
319
       [msg3.xml]
          <?xml version="1.0" encoding="utf-8"?>
320
```

```
321
          <root>test3입니다.</root>
322
323
       [sampleLink.html]
324
          <!DOCTYPE html>
325
          <html lang="ko">
326
          <head>
327
          <meta charset="utf-8" />
328
          <title>Ajax Test using Radio Button</title>
329
          <script src="js/httpRequest.js"></script>
330
          <script>
331
             function loadMsq(val){
332
               var url = "msg"+val+".xml";
333
               sendRequest(url, ", callback, "post");
334
335
             function callback(){
336
               if(httpRequest.readyState == 4 && httpRequest.status == 200){
337
                    var xmlDoc = httpRequest.responseXML;
338
                    var root = xmlDoc.firstChild;
339
                  var msg = root.firstChild.nodeValue;
340
                    document.getElementById("output1").innerHTML = msg;
341
342
          </script>
343
344
          </head>
345
          <body>
346
             <A href="javascript:loadMsg(1)">test1 입니다</A><br>
             <A href="javascript:loadMsg(2)">test2 입니다</A><br>
347
348
             <A href="javascript:loadMsg(3)">test3 입니다</A><br>
349
350
             <!-- 여기에 출력 -->
             <div id="output1" style="font-size:24px"></div>
351
352
          </body>
353
          </html>
354
355
       [menu1.html]
356
          <a href="http://www.naver.com">Naver</a>
357
358
       [menu2.html]
359
          <a href="http://www.daum.net">DAUM</a><br>
360
          <a href="http://www.empas.com">EMPAS</a>
361
362
       [sampleOnMouse.html]
363
          <!DOCTYPE html>
          <html lang="ko">
364
365
          <head>
366
          <meta charset="utf-8" />
367
          <title>Ajax Test using Radio Button</title>
          <script src="js/httpRequest.js"></script>
368
369
          <script>
370
             var margin;
             function loadMenu(num, m){
371
372
               margin = m;
373
               var url = "menu"+num+".html";
374
               sendRequest(url, ", callback, "post");
375
376
             function callback(){
377
               if(httpRequest.readyState == 4 && httpRequest.status == 200){
378
                    var msg = httpRequest.responseText;
379
                    document.getElementById("menuA").innerHTML = msg;
                    document.getElementById("menuA").style.marginLeft = margin + "px";
380
381
               }
382
383
          </script>
384
          </head>
385
          <body>
             | <a href="javascript:void()" onMouseOver="loadMenu(1,5)">Menu1을 읽어들입니다</a>
386
             | <a href="javascript:void()" onMouseOver="loadMenu(2,190)">Menu2을 읽어들입니다</a> |
387
```

```
388
389
             <!-- 여기로 출력 -->
390
             <div id="menuA" class="menu"></div>
391
          </body>
392
          </html>
393
394
395
     4. Select & Option
396
       [coffee.xml]
397
          <?xml version="1.0" encoding="utf-8"?>
398
          sts>
399
             <items>
400
               <text>Americano</text>
401
               <value>3000</value>
402
             </items>
403
             <items>
404
               <text>Cafe Mocha</text>
405
               <value>5000</value>
406
             </items>
407
             <items>
408
               <text>Cafe Latte</text>
409
               <value>3500</value>
410
             </items>
411
             <items>
412
               <text>Capuccino</text>
413
               <value>6000</value>
414
             </items>
415
          </lists>
416
417
       [fruit.xml]
          <?xml version="1.0" encoding="utf-8"?>
418
419
          sts>
420
             <items>
421
               <text>Banana</text>
422
               <value>1000</value>
423
             </items>
424
             <items>
425
               <text>Orange</text>
426
               <value>2000</value>
427
             </items>
428
             <items>
429
               <text>Apple</text>
430
               <value>3000</value>
431
             </items>
432
             <items>
433
               <text>Grape</text>
434
               <value>4000</value>
435
             </items>
436
             <items>
437
               <text>Plums</text>
438
               <value>5000</value>
439
             </items>
440
             <items>
441
               <text>Nuts</text>
442
               <value>6000</value>
443
             </items>
444
          </lists>
445
446
       [sampleOption.html]
447
          <!DOCTYPE html>
448
          <html>
449
             <head>
               <meta charset="UTF-8">
450
451
               <title>Insert title here</title>
452
               <script src="js/jquery-3.2.1.min.js"></script>
453
               <script>
454
                  var xmlObj;
```

```
455
                   $(document).ready(function(){
456
                      xmlObj = new XMLHttpRequest();
457
                      $('#coffee').click(function(){
458
                        xmlObj.open("GET", "coffee.xml");
459
                        xmlObj.onreadystatechange = callback;
460
                        xmlObj.send(null);
461
                      });
462
                      $('#fruit').click(function(){
463
                        xmlObj.open("GET", "fruit.xml");
464
                        xmlObj.onreadystatechange = callback;
465
                        xmlObj.send(null);
466
                      });
467
                      $('#lists').change(function(){
                        var obj = document.getElementById("lists");
468
                        var idx = obj.selectedIndex;
469
470
                        alert(obj.options[idx].text + " : " + obj.options[idx].value);
471
                      });
472
                   });
473
                   function callback(){
474
                      if(xmlObj.readyState == 4 && xmlObj.status == 200){
475
                        xmlDoc = xmlObj.responseXML;
476
                        deleteAll(document.getElementById('lists'));
477
                        setItems(document.getElementById('lists'), xmlDoc);
478
                        }
479
480
                   function deleteAll(obj){
481
                      for(var i = 0; i < obj.options.length; i++){
482
                        obj.options[i] = null;
483
                      }
484
                   }
485
                   function setItems(obj, xdoc){
486
                      var root = xdoc.firstChild;
487
                      var count = 1;
488
                      obj.options[0] = new Option("-----선택-----", ");
                      for(var i = 0 ; i < root.childNodes.length ; i++){</pre>
489
490
                        if(root.childNodes[i].tagName == "items"){
491
                           var node = root.childNodes[i];
492
                           var text = node.childNodes[1].firstChild.nodeValue;
493
                           var value = node.childNodes[3].firstChild.nodeValue;
494
                           obj.options[count] = new Option(text, value);
495
                           count++;
496
                        }
497
                      }
498
                      obj.options[0].selected = "true";
499
                   }
500
                </script>
501
              </head>
502
              <body>
503
                <form name="test1">
                   <input type="button" id="coffee" value="커피 목록">
504
505
                   <input type="button" id="fruit" value="과일 목록"><br>
                   <select name="sel" size="10" id="lists" style="width:100px">
506
507
                      <option selected>----선택----</option>
508
                   </select>
509
                </form>
510
              </body>
511
           </html>
```