Example of Yahoo! Web Service Use Through Proxy

Adapted from example by Mark Pruett [*]

```
1   <?xml version="1.0" encoding="UTF-8"?>
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
              "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
    <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
5   <head>
      <title>
       Yahoo Search via Proxy
       -- Example adapted from Mark Pruett's Ajax and Web Services book
      </title>
10
      <style type="text/css">
      /*<![CDATA[*/
        .centre  {margin-left:auto; margin-right:auto}
      /*]]>*/
15    </style>

      <script type="text/javascript" src="ajax-simple.js" />
      <script type="text/javascript">
       //<![CDATA[
20       var ajax_xml;
         var xml;

         function el(id) {
           return document.getElementById(id);
25       }
```

```
        function so_clearInnerHTML(obj) {
          // This function is from Steven G. Chipman's SlayerOffice website
30        // (URL: http://slayeroffice.com/code/functions/so_clearInnerHTML.html)
          // 23 March 2007
          //
          // used under Creative Commons
          // Attribution-NonCommercial-ShareAlike 1.0 License
35
            while(obj.firstChild) {
            obj.removeChild(obj.firstChild);
          }
        }
40

        function clear_form () {
          so_clearInnerHTML(el("htmldisplay"));
          el("txtQuery").value = "";
45      }


        function get_xml (me) {
          xml = me.responseXML;
50        xml2html ("htmldisplay");
        }
```

```
55      function start_search () {
          ajax_xml = new Ajax ("/ysearch/webSearch?",
                              "appid=YOURAPPID"
                                + "&format=any&similar_ok=0"
                                + "&query=" + escape(el("txtQuery").value)
60                              + "&adult_ok=0&results=5&start=1",
                              "GET",
                              get_xml);
          ajax_xml.request ();

65        var htmldisplay = el("htmldisplay");
          so_clearInnerHTML(htmldisplay);
          htmldisplay.appendChild("Searching...");
        }
```

```
70          function xml2html (divname) {
              var html = "";
              var doc = xml.documentElement;
              var items = doc.getElementsByTagName('Result');

75            for (var i=0; i < items.length; i++) {
                  var title    = items[i].getElementsByTagName('Title')[0];
                  var link     = items[i].getElementsByTagName('ClickUrl')[0];
                  var reallink = items[i].getElementsByTagName('Url')[0];
                  var desc     = items[i].getElementsByTagName('Summary')[0];
80                var descstr  = desc.firstChild.data;

                  html += "<p><strong>"
                      + eval(i+1) + ". "
                      + "<a href='"
85                    +     link.firstChild.data
                      + "'>"
                      +     title.firstChild.data
                      + "<\/a><\/strong>"
                      + <br />"
90                    + "<span style="font-size='small'>"
                      +   descstr
                      + "<\/span>"
                      + <br />"
                      + "<span style='font-size:x-small'>"
95                    +   "<a href=\""
                      +       reallink.firstChild.data
                      +   "\">" reallink.firstChild.data
                      +   "<\/a><\/span></p>";
              }
100
              var target_div = el (divname);

              target_div.appendChild(html);
          }
105   //]]>
        </script>
    </head>
```

```
     <body>
110    <noscript>
         <p>
          This example requires JavaScript which you do not have enabled.
         </p>
       </noscript>
115
       <form method="get" action=""
         onsubmit="start_search(); return false">
         <div class="centre">
           <h3>Yahoo Search via Proxy</h3>
120        <p>
            This example uses Apache's ProxyPass rules to redirect a web
            service request to a server on a separate domain as s demonstration
            of one method to circumvent XMLHttpRequest's domain restrictions.
           </p>
125
           <p>
            <input type="text" size="60" name="txtQuery" id="txtQuery" />
           </p>

130        <p>
            <input type="submit" value="Search" /> 
            <input type="button" value="Clear" onclick="clear_form();" />
           </p>
         </div>
135
         <div id="htmldisplay"></div>
       </form>
     </body>
     </html>
```

References

[1] Mark Pruett. *Ajax and Web Services*. O'Reilly Media, Inc., 2006. ISBN 0596528531.
Yahoo! example adapted (almost quoted) from 'Listing 4. A Yahoo! Search example using a simple proxy' (pages 28 and 29).

[2] Steven G. Chipman ⟨slayer@slayeroffice.org⟩. Alternatives to innerHTML. `http://slayeroffice.com/articles/innerHTML_alternatives/`. version 1.0, Last Revision: 02.10.2006, copied 23 March 2007.