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## AJAX Live Search: The PHP File

The page on the server called by the JavaScript above is a PHP file called [liveSearch.php](#). The source code in `liveSearch.php` searches the XML file [links.xml](#) for titles matching the search string and returns the result. If there is any text sent from the JavaScript (`strlen($q)>0`), the following happens:

1. Load the XML file [links.xml](#) into a new XML DOM object.
2. Loop through all `<title>` elements to find matches from the text sent from the JavaScript.
3. Set the correct url and title in the `$response` variable. If more than one match is found, all matches are added to the variable.
4. If no matches are found, the `$response` variable is set to “No suggestion.”

```
01 <?php
02 $xmlDoc = new DOMDocument( );
03 $xmlDoc->load( "links.xml" );
04 $x = $xmlDoc->getElementsByTagName('link');
05
06 // Get the q parameter from URL.
07 $q = $_GET["q"];
08
09 // Lookup all links from the xml file if length of q > 0.
10 if ( strlen($q) > 0 ) {
11     $hint = "";
12     for( $i=0; $i<($x->length); $i++ ) {
13         $y = $x->item($i)->getElementsByTagName('title');
14         $z = $x->item($i)->getElementsByTagName('url');
15         if ( $y->item(0)->nodeType == 1 ) { // 1: element
16             // Find a link matching the search text.
17             if ( strstr( $y->item(0)->childNodes->item(0)->nodeValue, $q ) ) {
18                 if ( $hint == "" ) {
```

```
19         $hint = "<a href='" .
20         $z->item(0)->childNodes->item(0)->nodeValue . "' target='_blank'>" .
21         $y->item(0)->childNodes->item(0)->nodeValue . "</a>";
22     }
23     else {
24         $hint = $hint . "<a href='" .
25         $z->item(0)->childNodes->item(0)->nodeValue . "' target='_blank'>" .
26         $y->item(0)->childNodes->item(0)->nodeValue . "</a>";
27     }
28 }
29 }
30 }
31 }
32
33 // Set output to "No suggestion" if no hint were found
34 // or to the correct values.
35 if ( $hint == "" ) {
36     $response = "No suggestion";
37 }
38 else {
39     $response = $hint;
40 }
41
42 // Output the response.
43 echo $response;
44 ?>
```

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