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AJAX Suggest: The JavaScript File

Start typing a course in the input field:

Suggestions:

This page includes a link to a JavaScript page

<p align="center"><script src="<u>showHint.js</u>"></script></p>

which contains a function `showHint` as below. If the input field is empty (`str.length==0`), the function clears the content of the `txtHint` placeholder and exits the function. If the input field is not empty, the `showHint` function executes the following:

1. Create an <u>XMLHttpRequest</u> object.

2. Create the function to be executed when the server response is ready.

3. Send the request off to a file on the server.

4. A parameter (q) with the content of the input field is added to the URL.

```
01   function showHint( str ) {
02     if ( str.length == 0 ) {
03       document.getElementById("txtHint").innerHTML = "";
04       return;
05     }
06     if ( window.XMLHttpRequest ) {
07       // code for IE7+, Firefox, Chrome, Opera, Safari
08       xmlhttp = new XMLHttpRequest( );
09     }
10     else {
11       // code for IE6, IE5
12       xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
```

```
13      }
14    xmlhttp.onreadystatechange = function( ) {
15      if ( ( xmlhttp.readyState == 4 ) &&
16           ( xmlhttp.status    == 200 ) ) {
17        document.getElementById("txtHint").innerHTML =
18          xmlhttp.responseText;
19      }
20    }
21    xmlhttp.open( "GET", "getHint.php?q="+str, true );
22    xmlhttp.send( );
23  }
```

Slide 16.1: AJAX suggest
Slide 16.3: AJAX suggest: The PHP file
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