**AJAX**

**1. What is Ajax?**

Ajax is Asynchronous JavaScript and XML a client-side script that communicates with server without refresh the complete page. You can also say "the method of exchanging data with a server, and updating parts of a web page without reloading the entire page". Ajax is used in all web-technology like PHP, ASP, Java and Mobile Technology etc.

2. **What is advantage of AJax?**

Its faster as it load only required content.

More user friendly.

One page application possible due to Ajax.

Reduce the loading of page.

3. **What is XMLHttpRequest?**

XMLHttpRequest is an API available to web browser scripting languages (i.e. JavaScript) It is used to send HTTP/HTTPS requests to a web server and load the server's response into the script.

The XMLHttpRequest Object

The XMLHttpRequest object is used to exchange data with a server behind the scenes.

The XMLHttpRequest object is the developers dream, because you can:

Update a web page without reloading the page

Request data from a server after the page has loaded

Receive data from a server after the page has loaded

Send data to a server in the background

**XMLHttpRequest Object Methods**

|  |  |
| --- | --- |
| Method | Description |
| abort() | Cancels the current request |
| getAllResponseHeaders() | Returns header information |
| getResponseHeader() | Returns specific header information |
| open(method,url,async,uname,pswd) | Specifies the type of request, the URL, if the request should be handled asynchronously or not, and other optional attributes of a request   method: the type of request: GET or POST url: the location of the file on the server async: true (asynchronous) or false (synchronous) |
| send(string) | send(string) Sends the request off to the server.  string: Only used for POST requests |
| setRequestHeader() | Adds a label/value pair to the header to be sent |

**XMLHttpRequest Object Properties**

|  |  |
| --- | --- |
| Property | Description |
| onreadystatechange | Stores a function (or the name of a function) to be called automatically each time the readyState property changes |
| readyState | Holds the status of the XMLHttpRequest. Changes from 0 to 4:  0: request not initialized 1: server connection established 2: request received 3: processing request 4: request finished and response is ready |
| responseText | Returns the response data as a string |
| responseXML | Returns the response data as XML data |
| status | Returns the status-number (e.g. "404" for "Not Found" or "200" for "OK") |
| statusText | Returns the status-text (e.g. "Not Found" or "OK") |