

**NANA TAHIR HAMMOND**

**INDEX NO : 050919001**

**COURSE : WEB API**

**LECTURER : AUGUTUS BUCKMAN**

### **What is XMLHttpRequest Object ?**

XMLHttpRequest object is an API which is used for fetching data from the server. XMLHttpRequest is basically used in Ajax programming. It retrieve any type of data such as json, xml, text etc. It request for data in background and update the page without reloading page on client side. An object of XMLHttpRequest is used for asynchronous communication between client and server. The \$.ajax() method is used for the creation of XMLHttpRequest object.

### **The \$.ajax() does following steps in background:**

- \*Send data from background.
- \*Receives the data from the server.
- \*Update webpage without reloading the page.

### **Syntax:**

```
var XHR = $.ajax({configs});
```

### **// Example showing how XMLHttpRequest object created**

```
var XMLO = $.ajax({  
  
// Our sample URL to make the request  
url: 'https://jsonplaceholder.typicode.com/todos/1',  
  
// type of Request  
type: "GET"  
});
```

### XMLHttpRequest Object Methods

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

### XMLHttpRequest Object Properties

Properties	Description
<b>onreadystatechange</b>	<b>Stores a function (or the name of a function) to be called automatically each time the readyState property changes</b>
<b>readyState</b>	<b>Holds the status of the XMLHttpRequest. Changes from 0 to 4:</b>

	<b>0: request not initialized</b> <b>1: server connection established</b> <b>2: request received</b> <b>3: processing request</b> <b>4: request finished and response is ready</b>
<b>responseText</b>	Returns the response data as a string
<b>responseXML</b>	Returns the response data as XML data
<b>Status</b>	Returns the status-text (e.g. "Not Found" or "OK")
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