XMLHttpRequest Object Methods

|  |  |
| --- | --- |
| **Method** | **Description** |
| new XMLHttpRequest() | Creates a new XMLHttpRequest object |
| abort() | Cancels the current request |
| getAllResponseHeaders() | Returns header information |
| getResponseHeader() | Returns specific header information |
| open(*method,url,async,user,psw*) | Specifies the request  *method*: the request type GET or POST *url*: the file location *async*: true (asynchronous) or false (synchronous) *user*: optional user name *psw*: optional password |
| send() | Sends the request to the server Used for GET requests |
| send(*string*) | Sends the request to the server. Used for POST requests |
| setRequestHeader() | Adds a label/value pair to the header to be sent |

XMLHttpRequest Object Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| onreadystatechange | Defines a function to be called when the readyState property changes |
| readyState | Holds the status of the XMLHttpRequest. 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 of a request 200: "OK"  500: "Internal Server Error" 403: "Forbidden" 404: "Not Found"  For a complete list go to the |
| statusText | Returns the status-text (e.g. "OK" or "Not Found") |

**JAVASCRIPT AJAX**

**GET**

<!DOCTYPE html>

<html>

<body>

<h1>The XMLHttpRequest Object</h1>

<p id="demo">Let AJAX change this text.</p>

<button type="button" onclick="loadDoc()">Change Content</button>

<script>

function loadDoc() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {

document.getElementById("demo").innerHTML = this.responseText;

}

};

xhttp.open("GET", "ajax\_info.txt", true);

xhttp.send();

}

</script>

</body>

</html>

**Passing Values through GET request**

<!DOCTYPE html>

<html>

<body>

<h1>The XMLHttpRequest Object</h1>

<button type="button" onclick="loadDoc()">Request data</button>

<p id="demo"></p>

<script>

function loadDoc() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {

document.getElementById("demo").innerHTML = this.responseText;

}

};

xhttp.open("GET", "demo\_get2.asp?fname=Henry&lname=Ford", true);

xhttp.send();

}

</script>

</body>

</html>

**POST**

<!DOCTYPE html>

<html>

<body>

<h1>The XMLHttpRequest Object</h1>

<button type="button" onclick="loadDoc()">Request data</button>

<p id="demo"></p>

<script>

function loadDoc() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {

document.getElementById("demo").innerHTML = this.responseText;

}

};

xhttp.open("POST", "demo\_post.asp", true);

xhttp.send();

}

</script>

</body>

</html>

**Send Data Through POST Request**

<!DOCTYPE html>

<html>

<body>

<h1>The XMLHttpRequest Object</h1>

<button type="button" onclick="loadDoc()">Request data</button>

<p id="demo"></p>

<script>

function loadDoc() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {

document.getElementById("demo").innerHTML = this.responseText;

}

};

xhttp.open("POST", "demo\_post2.asp", true);

xhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");

xhttp.send("fname=Henry&lname=Ford");

}

</script>

</body>

</html>

**JQUERY AJAX**

**AJAX METHOD**

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$.ajax({url: "demo\_test.txt", success: function(result){

$("#div1").html(result);

}});

});

});

</script>

</head>

<body>

<div id="div1"><h2>Let jQuery AJAX Change This Text</h2></div>

<button>Get External Content</button>

</body>

</html>

**GET request forms**

**METHOD-1**

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$.ajax({url: "https://www.w3schools.com/xml/demo\_get2.asp", type:"GET", data: "fname=Henry&lname=Ford", success: function(result){

$("#div1").html(result);

}});

});

});

</script>

</head>

<body>

<div id="div1"><h2>Let jQuery AJAX Change This Text</h2></div>

<button>Get External Content</button>

</body>

</html>

**METHOD-2**

<body>

    <form id="form" action="/concat" method=POST>

        <input id=test1 type=text placeholder="Test1" name=field1>

        <input type=text placeholder="Test2" name=field2>

        <input type=text placeholder="Test3" name=field3>

        <button type="submit">Submit</button>

    </form>

    <script src= "https://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>

    <script>

        $( '#form' ).on('submit', (function ( e ) {

            e.preventDefault();

            that=$(this);

            console.log(that.serialize())

            $.get('/concat?'+ that.serialize());

        }));

    </script>

</body>

**POST request**

**METHOD-1**

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script>

$(document).ready(function(){

$("button").click(function(){

$.ajax({url: "https://www.w3schools.com/xml/demo\_post2.asp", type:"POST", data: "fname=Henry&lname=Ford", success: function(result){

$("#div1").html(result);

}});

});

});

</script>

</head>

<body>

<div id="div1"><h2>Let jQuery AJAX Change This Text</h2></div>

<button>Get External Content</button>

</body>

</html>

**METHOD-2**

<body>

    <form id="form" action="/concat" method=POST>

        <input id=test1 type=text placeholder="Test1" name=field1>

        <input type=text placeholder="Test2" name=field2>

        <input type=text placeholder="Test3" name=field3>

        <button type="submit">Submit</button>

    </form>

    <div class="Hello">

    </div>

    <script src= "https://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>

    <script>

        $( '#form' ).on('submit', (function ( e ) {

            e.preventDefault();

            that=$(this);

            console.log(that.serialize())

            $.post('/concat', that.serialize());

        }));

    </script>

</body>