

AJAX Request(Asynchronous Javascript and XML)

This request is useful when you want to load portion of the page.

Examples

After selecting state, city dropdown gets populated

After selecting city list of colleges will get populated

After login the menu, header will remain as it is and welcome <username> will get added at the top of the menu.

If you want to send AJAX request to a web service via javascript

1. Create object of XMLHttpRequest class.
Var xhr=null;
getXHRObject(){
 if (window.XMLHttpRequest) {

 xhr = new XMLHttpRequest();
 } else {
 xhr = new ActiveXObject("Microsoft.XMLHTTP");
 }
}
2. Generate the request
Var url="https://jsonplaceholder.typicode.com/posts/"
Xhr.open("GET",url,true);

Properties of xhr object

xhr.readyState-----

1-----generate or open the request

2-----when you will send the request using send function

3----when we will start receiving data then send function will change the value to 3

4-----when we will receive entire data

Xhr.status=404

200 success

305 the method is not supported

404 url is wrong

500 ---- there is logical error in your server side

Xhr.responseText --- if the output is in json format or text format then it will get stored in responseText

Xhr.responseXML----- if the output is in xml format format then it will get stored in responseText

3. Write onreadystatechange function

```
xhr.onreadystatechange=function(){
  alert("value of readyState: "+xhr.readyState);
  //we received complete data successfully
  if(xhr.readyState===4 && xhr.status===200){
    var jsontdata=xhr.responseText;
    javascriptob=JSON.parse(jsontdata);
    display(javascriptob)
  }
}
```

4. Send the request.