**AJAX & JSON**

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JSON (Javascript Object Notation) is a way to store information in an organised, easy to access manner. It gives us a human-readable collection of data that we can access in a really logical manner. JSON uses javascript syntax but the JSON format is text only.

AJAX (Asynchronous Javascript & XML) is a method of building interactive applications for the web that process user requests immediately.

1. Create JSON file in its correct syntax – similar to javascripts object notation, except the property and method names are wrapped in double quotations. Save file in txt format.
2. Access the JSON file via URL on the server (DO NOT access locally).

HTTP Statuses

|  |  |
| --- | --- |
| 200 | Ok |
| 403 | Forbidden |
| 404 | Not found |

To receive data

Var request = new XMLHttpRequest();

//store in a variable

//new keyword is used to create a new object using the XMLHttpRequest constructor

Request.open(‘GET’, ‘JSON url’);

//find the data you want to use

Request.onload = function() {  
 var ourData = JSON.parse(request.responseText);

//parse the the JSON file into javascript syntax and store in var

Request.send(); //send response

Example

Windows.addEventListener(‘load’, function() {  
 var submit = document.getElementById(‘submit\_btn’);

Submit.addEventListener(‘click’, function(e) {

e.preventDefault();

var request = new XMLHttpRequest();

request.open(‘GET’, ‘www.example.co.uk/JSON.txt’);

request.onload = function() {

var ourData = JSON.parse(request.responseText);

renderHTML(ourData); //calls function below with text as argument

}

Request.send();

});

Function renderHTML(data) {

Var input = document.getElementById(‘insert’);

Var text = ‘’;

For(var i = 0; I < data.length; i++) {

Text += data[i].name + ‘ is ‘ +data[i].age + ‘ years old.<br />’

}

Insert.insertAdjacentHTML(‘beforeend’, text);

}

**Test**

1. What is JSON?
2. What is AJAX?
3. What are the different HTTP statuses and what do they mean?
4. Create a JSON file with data inside
5. Access the JSON file via AJAX methods to print on a page
6. Describe what each AJAX method does