Section 1 \_ Browsers and AJAX - Quiz

You're a champion. You've just complete the first section of this course :)

Ajax is a technique for creating fast and dynamic webpages. Why does it speed things up? Well, it allows data to be loaded into webpages in the background, without the need for a page refresh. Neat huh!

This meant that before AJAX, you would have to manually refresh a page to see updated content. And yes, this means re-loading all of the HTML and CSS, which is slow and inefficient. That's why the XMLHttpRequest API was introduced. It solved this issue.

In this section we looked at what a HTTP request is, what AJAX is, and why we use it. You used methods to help you make requests and receive responses from a server.

Now its time to put your knowledge to the test with these fun questions.

Don't worry if you can't get them all right. The most important point at this stage is to have fun and enjoy!

# Question 1:

Is AJAX a programming language?

1. Yes.
2. No.

## Answer:

No - AJAX is a technique for accessing web servers from a web page. It is not a programming language per se.

# Question 2:

Why was AJAX introduced? In other words, what problem did it solve?

1. Writing CSS used to be a very tedious process until AJAX came along.
2. Page loading in the past used to be quite simple - you would simply send a request for a website to a server, and if nothing went wrong, the data from the server would be downloaded and displayed on your computer or phone. The problem with this is that if you wanted to update any part of the page, the entire page had to load again. This led to poor UX and performance as this was very resource intensive.
3. Fetching data from a server and then displaying that data to your screen is crucial. AJAX was introduced to allow you to access data from a server. Without AJAX, this would be impossible.

## Answer

B - AJAX is a new technique used to create better, faster and more interactive web applications. AJAX uses asynchronous data transfer between the Browser and the web server.

# Question 3:

Which one of the below is an advantage of AJAX?

1. It is dependent on JavaScript.
2. AJAX increases the size of the requests.
3. Debugging is difficult.
4. The user is not blocked while data is being retrieved from the server.

## Answer

D - This is the main advantage of using AJAX.

# Question 4:

How do we find out whether the AJAX request has been completed?

1. We look at the readyState property.
2. We look at the Response property. If the response property is equal to "Done", then we know that the request has been completed and data is available.
3. We look for the Status. If the Status is equal to 200, then we know that the request has been completed and data is available.1

## Answer:

A - The readyState property describes the loading state of the document. The ReadyState property is used to check whether the AJAX request has been completed. If the property is equal to four, then the request has been completed and data is available.

# Question 5:

What is the readyState in AJAX?

1. The readyState is called whenever the response attribute changes.
2. The readyState is a property in the XMLHttpRequest object and it holds the status of the request.
3. It returns the status number of the request, such as a 404 error.

## Answer:

B - The different types of the status changes available range from 0 to 4. A status of 4 means that the request has finished and a response is ready.

# Question 6:

In our examples we had set 'true' in the third argument to the open method (this is set to 'true' by default). If in the open method the third parameter async is set to false, the request is made synchronously.

What is a synchronous request in AJAX?

1. The synchronous request allows the browser to continue to execute the next line of JavaScript execution irrespective of the response from the web server after a request.
2. The synchronous request waits for the server’s response after making a request to proceed with next part of the script execution. We should avoid using this unless we absolutely have to.

Answer: 2

# Question 7:

What is XML and why is it so important?

1. XML is considered a rendering engine, used to fetch data from a server and then display that to the screen.
2. XML is another variant of a markup language like HTML, and it stands for eXtensible Markup Language. If HTML is designed to display data, XML is designed to contain and carry data.
3. XML is a programming language.

Answer: B

# Question 8:

We are talking about the XMLHttpRequest object.

What statement below is FALSE ?

1. The XMLHttpRequest object is often abbreviated as XHR.
2. XMLHttpRequest is set of APIs that can be used by browser scripting languages, such as JavaScript, to transfer XML and other text data to and from a Web server using HTTP.
3. XMLHttpRequest works by establishing a communication channel between a Web page's client-side (aka: the browser) and server-side.
4. XMLHttpRequest can be used to fetch data in only one format - XML.

## Answer:

D - XMLHttpRequest can be used to fetch data in a number of formats including XML, HTML, JSON or plain text.