Answers for Ajax study guide questions

14 march 2016

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What is the main purpose of Ajax?

Answer:

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| To provide a more responsive and rich interface for the end user through partial page refreshing and asynchronous updating from a request. |

Question 2

What is the XMLHttpRequest object in Ajax?

Answer:

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| XMLHttpRequest is an API for a JavaScript object supported by all modern browsers. This JavaScript object is an HTTP client that will send HTTP requests and receive HTTP responses. The requests can be synchronous or asynchronous, and callback methods can be designated that will be called when the response arrives. |

Question 3

What is the difference of a synchronous versus asynchronous Ajax call?

Answer:

Synchronous calls will block the caller (e.g., browser in this case), which means that the browser (or at least the page making the request) will be frozen until the response comes.

Asynchronous calls allow the caller to continue running. The asynchronous call creates a new process or thread. This new process is blocked awaiting the response, but the browser (and the requesting page) continues running until the response returns and then the blocked thread is restarted.

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Question 4

What are the two main techniques Ajax uses to make responsiveness fast?

Answer:

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| 1 – partial page loading  2 – asynchronous updating of the partial page refresh  Question 5  What is the Same Origin Policy and what are its implications for Ajax  Answer: The XMLHTTPrequest object can only make queries to the same website that it originated from. (actually, same protocol, port and host, so it could be another website on the same host) |

6. - describe what values are expected for each of the following $.ajax({ ...} ) option object attributes:

url: url for the request

data: object literal with query parameters and values

type: post or get

datatype: type of data expecting (one of test, html, json, xml)

success error complete: event handler for successful request, failed request, and to be called in either case, respectively

7. Is jQuery a function or an object?

Answer: both. It is a function, and all JavaScript functions are objects

8. is $(xyz) a function call or a method call

Answer: function call

9 is $.ajax(xyz) a function call or a method call

Answer: method call