Test DOM basic I

Overview:

What is DOM?

The DOM is a W3C (World Wide Web Consortium) standard.

The DOM defines a standard for accessing documents:

"The W3C Document Object Model (DOM) is a platform and language-neutral interface that allows programs and scripts to dynamically access and update the content, structure, and style of a document."

What is the mission of the Javascript DOM?

The HTML DOM is a standard object model and programming interface for HTML. It defines:

The HTML elements as objects

The properties of all HTML elements

The methods to access all HTML elements

The events for all HTML elements

In other words: The HTML DOM is a standard for how to get, change, add, or delete HTML elements.

DOM Types in Javascript ?

The W3C DOM standard is separated into 3 different parts:

Core DOM - standard model for all document types

XML DOM - standard model for XML documents

HTML DOM - standard model for HTML documents

What is DOM manipulation?

What is DOM element?

To do so, you have to find the elements first. There are several ways to do this:

Finding HTML elements by id

Finding HTML elements by tag name

Finding HTML elements by class name

Finding HTML elements by CSS selectors

Finding HTML elements by HTML object collections

Query HTML element: What is

getElementByID ?

The getElementById() method returns the element that has the ID attribute with the specified value. Returns null if no elements with the specified ID exists.

getElementByClassName ?

The getElementsByClassName() method returns a collection of all elements in the document with the specified class name, as an [HTMLCollection](https://www.w3schools.com/jsref/dom_obj_htmlcollection.asp) object.

The [HTMLCollection](https://www.w3schools.com/jsref/dom_obj_htmlcollection.asp) object represents a collection of nodes. The nodes can be accessed by index numbers. The index starts at 0.

getElementByTagName?

The getElementsByTagName() method returns a collection of all elements in the document with the specified tag name, as an [HTMLCollection](https://www.w3schools.com/jsref/dom_obj_htmlcollection.asp) object.

The [HTMLCollection](https://www.w3schools.com/jsref/dom_obj_htmlcollection.asp) object represents a collection of nodes. The nodes can be accessed by index numbers. The index starts at 0.

querySelector?

The querySelector() method returns the first element that matches a specified CSS selector(s) in the document.

queryDelectorAll?

The querySelectorAll() method returns all elements in the document that matches a specified CSS selector(s), as a static NodeList object.

The NodeList object represents a collection of nodes. The nodes can be accessed by index numbers. The index starts at 0.

Basic DOM properties: What is

.innerText?

The innerText property sets or returns the text content of the specified node, and all its descendants.

If you set the innerText property, any child nodes are removed and replaced by a single Text node containing the specified string.

textContent?

The textContent property sets or returns the text content of the specified node, and all its descendants.

If you set the textContent property, any child nodes are removed and replaced by a single Text node containing the specified string.

innerHTML?

The innerHTML property sets or returns the HTML content (inner HTML) of an element.

style?

The style property returns a CSSStyleDeclaration object, which represents an element's style attribute.

The style property is used to get or set a specific style of an element using different CSS properties.

Childrent: ?

The children property returns a collection of an element's child elements, as an HTMLCollection object.

The elements in the collection are sorted as they appear in the source code and can be accessed by index numbers. The index starts at 0.

ParentElement: ?

The parentElement property returns the parent element of the specified element.

Id: ?

The id property sets or returns the id of an element (the value of an element's id attribute).

classList: ?

The classList property returns the class name(s) of an element, as a DOMTokenList object.

This property is useful to add, remove and toggle CSS classes on an element.

The classList property is read-only, however, you can modify it by using the add() and remove() methods.

classsList( .add, .remove) ?

add(class1, class2, ...) : Adds one or more class names to an element. If the specified class already exist, the class will not be added

remove(class1, class2, ... : Removes one or more class names from an element.

DOM methods: What is

remove()?

The remove() method removes the specified element from the DOM.

appenChild()?

The appendChild() method appends a node as the last child of a node.

setAttribute()?

The setAttribute() method adds the specified attribute to an element, and gives it the specified value.

If the specified attribute already exists, only the value is set/changed.

removeAttribute?

The removeAttribute() method removes the specified attribute from an element.

The difference between this method and the [removeAttributeNode()](https://www.w3schools.com/jsref/met_element_removeattributenode.asp) method is that the removeAttributeNode() method removes the specified Attr object, while this method removes the attribute with the specified name. The result will be the same. Also this method has no return value, while the removeAttributeNode() method returns the removed attribute, as an Attr object.

Click Event: What is

onclick?

The onclick event occurs when the user clicks on an element.