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Introduction to 'JavaScript' Language

Browser Object Model

Module 1 - Browser Object Model in JavaScript



CBSE

Browser Object Model (BOM) in JavaScript

The Browser Object Model (BOM) allows JavaScript to interact with the browser window. It provides objects that enable developers to control browser behavior, manipulate the window, handle user interactions, and work with browser-related properties like history, location, and screen size.



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Key Feature: Unlike the Document Object Model (DOM), which deals with webpage content, BOM interacts with the browser environment itself.



NTSE

Key Objects in BOM

BOM Object	Description
window	Represents the browser window. The global object in JavaScript.
document	Represents the webpage content (part of DOM, but accessed via BOM).
navigator	Provides information about the browser (e.g., name, version, platform).
location	Manages URL and allows navigation between pages.
history	Stores browser history and allows navigation between pages.
screen	Provides information about the user's screen (width, height, resolution).



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Window Object

It is used to interact with the browser window which displays the web page. It generally represents a tab in browser, but some actions like window width and height will affect the complete browser window.



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Navigator Object

It acts as a storehouse of all the data and information about the Browser software used to access the webpage and this object is used to fetch information related to the browser for example, whether the user is using Chrome browser or Safari browser, which version of browser is being used etc.



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Document Object



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This object represent the HTML document that is loaded into the browser. A document object is an object that provides access to all HTML elements of a document(webpage). We can use this object to append a new HTML tag to the webpage, modify any exsiting HTML tag, etc.

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History Object

It stores Uniform Resource Locator(URLs) visited by a user in the browser. It is a built-in object which is used to get browser history. This object is a property of the JavaScript Window object.

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Screen Object

It is a built-in object which is used to fetch information related to the browser screen, like the screen size, etc. It is also obtained from the Window object.

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Location Object

Location is a built-in object which represent the location of the object to which it is linked, which can be Window or Document. Both the Document and Window interface have a linked location property.

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