

Browser Object Model

Module 4 - BOM - Location Object in JavaScript

 CBSE

Location Object in BOM in JavaScript

The location object is a part of the Browser Object Model (BOM) in JavaScript. It provides information about the current URL and allows you to manipulate the browser's address bar. It is a property of the window object, so you can access it using window.location or just location.

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Features of Location Object:

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1. href: Returns the entire URL of the current page. It can also be used to redirect the browser to a new page.

Syntax: location.href

Example: location.href = "https://www.google.com";

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2. hostname: Returns the domain name of the web host.

Syntax: location.hostname

Example: document.write(location.hostname);

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3. pathname: Returns the path and filename of the current page.

Syntax: location.pathname

Example: document.write(location.pathname);

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4. protocol: Returns the web protocol used (e.g., http:, https:).

Syntax: location.protocol

Example: document.write(location.protocol);

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5. port: Returns the port number used by the URL. If no port is specified, it returns an empty string.

Syntax: location.port

Example: document.write(location.port);

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6. search: Returns the query string part of the URL, including the question mark (?).

Syntax: location.search

Example: document.write(location.search);

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7. assign(): Loads a new document.

Syntax: location.assign("URL");

Example: location.assign("https://example.com");

...many more

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8. reload(): Reloads the current page.

Syntax: location.reload()

Example: location.reload();

9. replace(): Replaces the current document with a new one, without saving the URL in the history.

Syntax: location.replace("URL");

Example: location.replace("https://example.com");

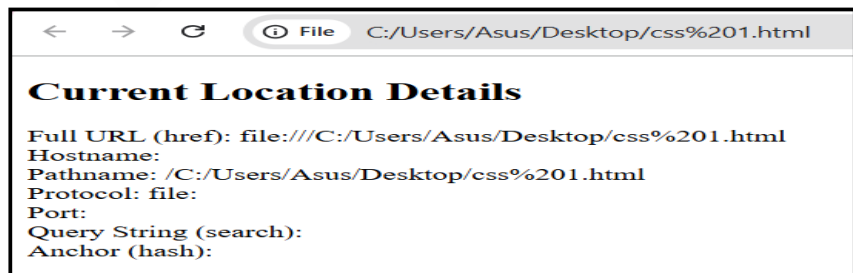
Applications of Location Object:

- Redirecting users to another page or website.
- Getting the current URL for tracking or analytics.
- Reloading the page after certain actions.
- Extracting query parameters from the URL.
- Navigating between different sections of a page using anchor tags.

Solved Example: Displaying Location Properties

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Location Object Example</title>
</head>
<body>
  <h2>Current Location Details</h2>
  <script>
    document.write("Full URL (href): " + location.href + "<br>");
    document.write("Hostname: " + location.hostname + "<br>");
    document.write("Pathname: " + location.pathname + "<br>");
    document.write("Protocol: " + location.protocol + "<br>");
    document.write("Port: " + location.port + "<br>");
    document.write("Query String (search): " + location.search + "<br>");
    document.write("Anchor (hash): " + location.hash + "<br>");
  </script>
</body>
</html>
```

OUTPUT:



Solved Example in Browser Console

Steps to run the JavaScript code in the browser console while visiting example.com

Steps to Execute:

- Open example.com or any other website in your browser.
- Press F12 or Right-click > Inspect to open Developer Tools.
- Go to the "Console" tab (you will see a blinking cursor).
- Write the code into the console.
- Press Enter to see the output.

CODE:

```
console.log("Full URL (href): " + location.href);  
console.log("Hostname: " + location.hostname);  
console.log("Pathname: " + location.pathname);  
console.log("Protocol: " + location.protocol);  
console.log("Port: " + location.port);  
console.log("Query String (search): " + location.search);  
console.log("Anchor (hash): " + location.hash);
```

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