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JavaScript - Day -2: Request & Response cycle

1. **Write a blog on Difference between Documents and Window objects?**

**The Document Object:**

The document object represents the web page itself. It provides access to the content of the current webpage and allows developers to manipulate it dynamically using JavaScript

**Represents the DOM:**

The document object represents the Document Object Model (DOM) of the current HTML page. It acts as an interface between JavaScript code and the HTML content.

**Accessing Elements:**

Developers can use methods like getElementById, getElementsByClassName, querySelector, and querySelectorAll to access and manipulate HTML elements within the document.

**Manipulating Content:**

The document object enables developers to dynamically modify the content, structure, and styles of the web page. This includes adding or removing elements, changing text and attributes, and modifying CSS styles.

**Events and Event Handling:**

JavaScript events, such as click, submit, and keypress, are associated with elements within the document. Developers can use event listeners to handle these events and trigger appropriate actions.

**The Window Object:**

The window object represents the browser window that contains the current web page. It serves as the global object for JavaScript in the browser environment.

**Global Scope:**

All global JavaScript variables, functions, and objects are attached to the window object. This means that properties and methods of the window object can be accessed directly without prefixing window.

**Browser Interaction:**

The window object provides methods for interacting with the browser environment, such as navigating to a new URL (window.location), opening new browser windows or tabs (window.open), and displaying alert dialogs (window.alert).

**Timing Events:**

JavaScript timing events, such as setTimeout and setInterval, are also part of the window object. These methods allow developers to execute code after a specified time interval.

**Window Size and Position:**

Properties like window.innerWidth, window.innerHeight, window.pageXOffset, and window.pageYOffset provide information about the size and position of the browser window.

**Key Differences:**

**Scope:**

The document object deals with the content and structure of the current HTML document, while the window object represents the browser window and its properties.

**Manipulation vs. Interaction:**

The document object is primarily used for manipulating the content of the web page, while the window object is used for interacting with the browser environment and controlling the browser window.

**Hierarchy:**

The document object is contained within the window object. It's like a nested structure where the document object is a child of the window object.