

Misconceptions

Module-4	
Misconception 1.	The Document Object Model (DOM) is an independent tool or library that web developers include into webpages.
Correct Explanation	The Document Object Model (DOM) is not an independent external tool or library. The webpage's structure is represented by a built-in feature that is automatically created by web browsers. It serves as a medium through which computer languages may interact with and change online information.
Misconception 2.	JavaScript is only about making things move on the screen.
Correct Explanation	JavaScript has a wide range of functionalities that extend beyond the realm of animations. JavaScript is capable of doing several tasks in web development, such as data processing, DOM manipulation, user input management, server communication, and other functionalities, making it a very flexible tool.

Misconception 3.	Responsive design primarily focuses on adapting information to various screen sizes, rather than just reducing its dimensions.
Correct Explanation	Responsive design is a design approach that aims to provide an ideal user experience across various devices. The process involves not only the scaling of material, but also the reorganisation, modification, and even the provision of distinct content or functionality, depending on the capabilities of the device and the dimensions of the screen.
Misconception 4.	Both localStorage and IndexedDB have similar functions as they both enable the storage of data inside the web browser.
Correct Explanation	Both localStorage and IndexedDB provide storage capabilities on the client-side; yet, they fulfil distinct objectives. The localStorage mechanism is well-suited for the storage of tiny key-value pairs. In contrast, IndexedDB is specifically built to handle greater quantities of structured data and offers additional functionalities such as indexing and complicated querying.

Misconception 5.	Using more libraries always makes your web application faster and better.
Correct Explanation	Libraries provide many mechanisms, strategies, and conceptual frameworks that enhance the efficiency of development processes. Nevertheless, excessive dependence on these resources or the inclusion of superfluous ones might lead to application bloating, which may result in decreased performance and the introduction of difficulties. The careful selection of libraries is of utmost importance, since it should be based on the specific requirements of the project.