

FAQ

Module-4	
Question 1.	What is the Document Object Model (DOM)?
Answer	The Document Object Model (DOM) is a structured representation of the material inside a website, organised in a hierarchical manner. This hierarchical structure enables developers to engage with, control, and alter the webpage's content using computer languages such as JavaScript.
Question 2.	How does JavaScript enable web page interactivity?
Answer	JavaScript is responsible for facilitating dynamic behaviour on web pages by interacting with the Document Object Model (DOM). The technology enables the seamless integration of real-time content updates, user input processing, dynamic animations, and many interactive elements, hence augmenting the overall user experience.
Question 3.	Why is responsive design important, and how does JavaScript aid in it?

Answer	<p>Responsive design is a crucial approach that guarantees optimal visual and functional performance of websites across a diverse range of devices and screen dimensions. CSS is responsible for handling visual adaptability, whereas JavaScript is responsible for managing functional adaptability. This means that JavaScript allows for the implementation of features such as adaptable content loading or the modification of behaviours dependent on the kind of device being used.</p>
Question 4.	What's the difference between localStorage and IndexedDB?
Answer	<p>localStorage is a component of the Web storing API that facilitates the storing of key-value pairs inside the browser using a straightforward application programming interface (API). This method is appropriate for datasets of lesser sizes. On the other hand, IndexedDB presents itself as a more sophisticated storage system capable of accommodating substantial quantities of organised data, including files, and facilitating intricate query operations.</p>

Question 5.	Is it always necessary to use libraries when dealing with sophisticated data storage in JavaScript?
Answer	No, while libraries may streamline several activities and provide supplementary features, they are not obligatory. Depending on the requirements of your project and your familiarity with raw application programming interfaces (APIs), you may choose to engage in direct contacts with storage systems. Nevertheless, libraries have the potential to greatly expedite the process of development and guarantee the use of optimal methodologies.