

Technology	Description	Pros	Cons
React	A declarative, efficient, and flexible JavaScript library for building user interfaces. It allows developers to create large web applications that can change data, without reloading the page.	<p>Component-Based Architecture: Facilitates the development of reusable UI components.</p> <p>Virtual DOM: Improves performance, as changes are first made to the virtual DOM and then efficiently updated in the real DOM.</p> <p>Flexibility: Easily integrates with other frameworks and libraries.</p>	<p>Learning Curve: The concepts of JSX and component lifecycle can be challenging for beginners.</p> <p>Rapid Pace of Development: Frequent updates can sometimes lead to a need for continuous learning.</p>
JavaScript	A lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it.	<p>High Versatility: Used for both client-side and server-side development.</p> <p>Asynchronous Processing: Supports callbacks and promises for handling asynchronous operations.</p> <p>Large Ecosystem: Extensive libraries, frameworks, and tools.</p> <p>Widely Supported: Supported by all modern web browsers.</p>	<p>Browser Compatibility: Different browsers can interpret JavaScript differently.</p>
MongoDB	A NoSQL database that uses a document-oriented data model and a non-structured query language. It is one of the most popular databases for modern web applications.	<p>Flexible Schema: Allows for the storage of data in a format that varies from document to document.</p> <p>Scalability: Designed with scalability in mind, supporting horizontal scaling through sharding.</p> <p>Performance: Fast read and write operations, especially for unstructured data.</p>	<p>Transaction Support: Historically, lacked comprehensive support for multi-document transactions</p> <p>Memory Usage: Can be resource-intensive, as it requires more memory for data storage compared to traditional relational databases.</p>