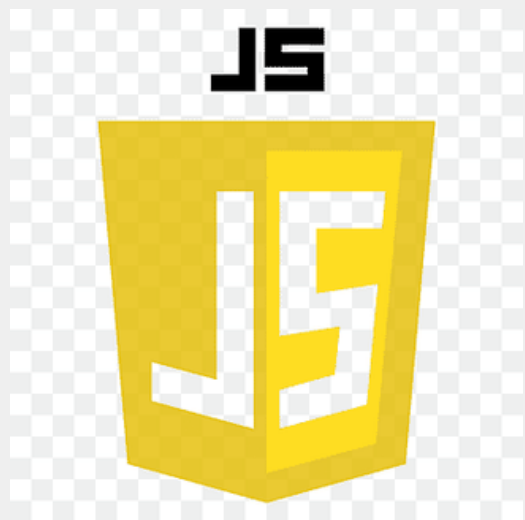


Q&A Session

Presented by: @TA_Yaya

JavaScript Orientation



Definition of MERN Stack



MERN is a set of technologies used to develop full web applications, including both the front-end and back-end. It consists of four main technologies:

1. **MongoDB** - A NoSQL database that stores data in JSON-like documents.
2. **Express.js** - A framework for Node.js that simplifies handling routes and requests on the server.
3. **React** - A JavaScript library used to create interactive user interfaces on the front-end.
4. **Node.js** - A server-side runtime environment that allows the back-end to be developed using JavaScript.

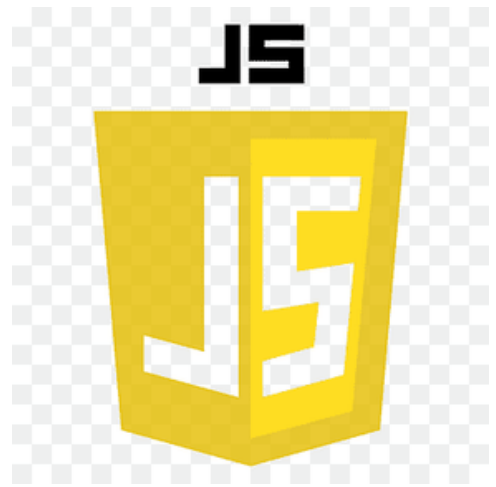
The **MERN** architecture allows developers to use JavaScript throughout the entire project, from the database to the server and the browser, making it easier to build modern web applications.



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Prerequisites for this Stack



What you need to know to make learning this technology easier?

First: Have a basic understanding of algorithms.

Second: Use a text editor (such as **VSCode**).

Third: Knowledge of how **Node.js** works and using **npm (Node Package Manager)** to install dependencies.

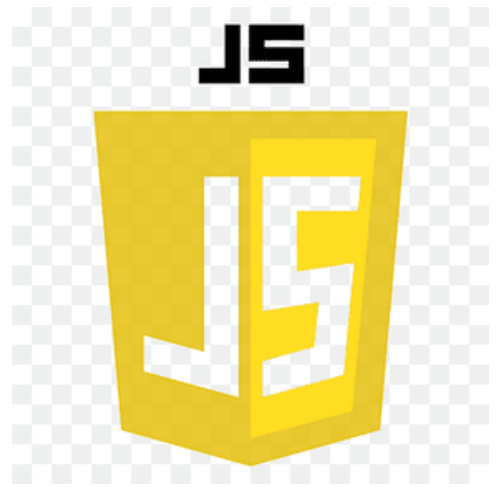
Fourth: **HTML, CSS, and JavaScript** – the fundamental building blocks of web development.



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Why learn JavaScript?

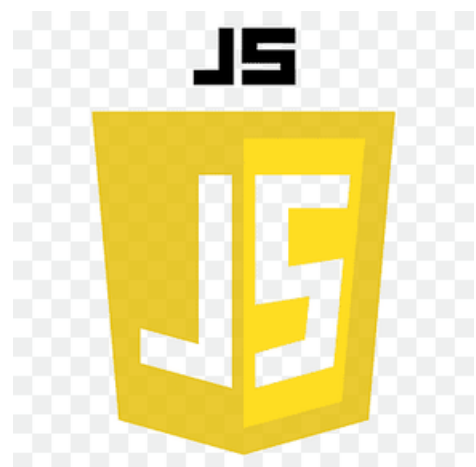


1st reason: It's essential for the web since it's the main scripting language used on the browser side.

For example, creating interactions on web pages, making elements move when clicked—all of this requires the use of **JavaScript**.

2nd reason: It's a versatile language that can be used for many things outside the browser, thanks to technologies like **NodeJS**, **Bun**, etc., which allow us to use **JavaScript** on the server (creating a web server to handle data, creating or reading files, and more).

Ecosystem and Community: **JavaScript** has a vast ecosystem and a large community, making it easy to find help, with plenty of libraries and resources available.



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JavaScript and Java



It's important to note that **JavaScript** is not **Java**:

These two languages have nothing in common.

The 'Java' in both names is due to marketing.

When JavaScript was created, its creators likely capitalized on Java's popularity to name it JavaScript, but they are unrelated.

- **JavaScript or ECMAScript:**

ECMA is an organization that sets standards. Among these standards is one called **ECMA-262**, which defines the workings of a language known as **ECMAScript**.

When we refer to **ECMAScript**, you can think of it as different versions of **JavaScript**, like **ECMAScript 6**, **ECMAScript 2022**, or **ES2022**.

These are essentially JavaScript versions that help us understand the evolution and features of the language.

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