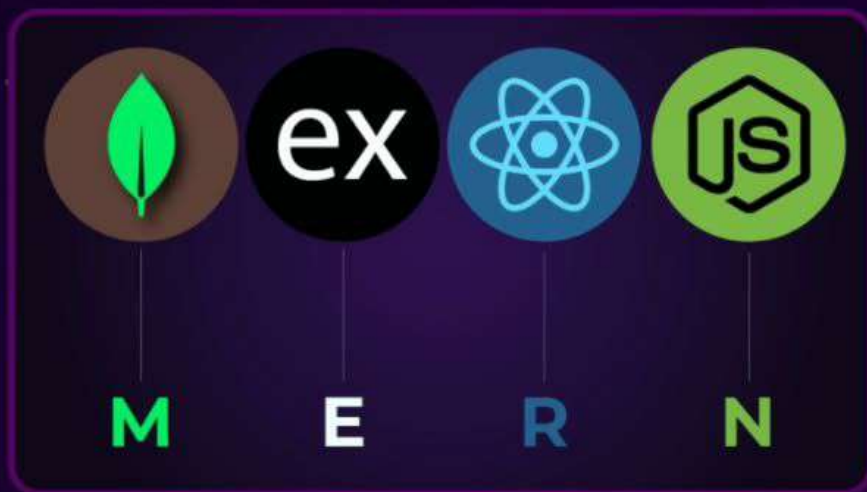




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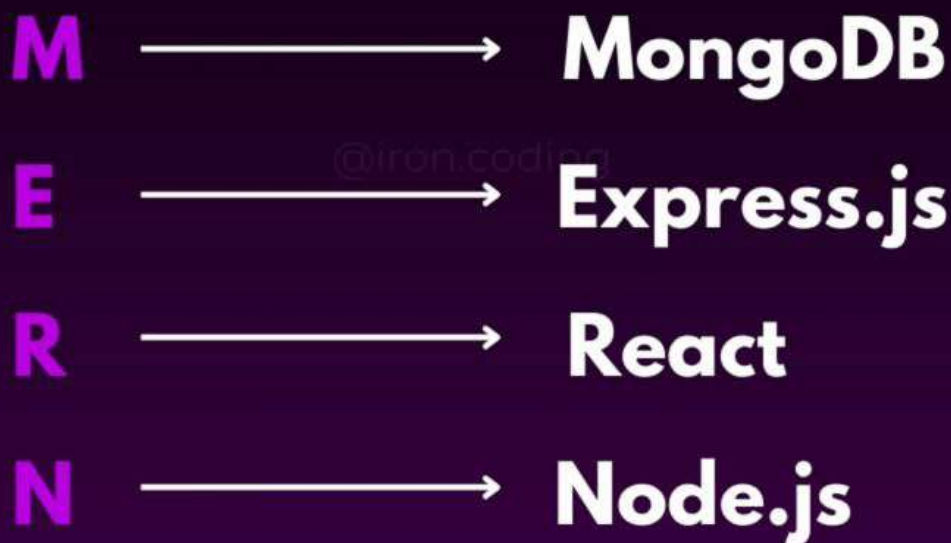


Introduction To MERN Stack



What is the MERN Stack?

- The MERN stack is a popular web development stack composed of



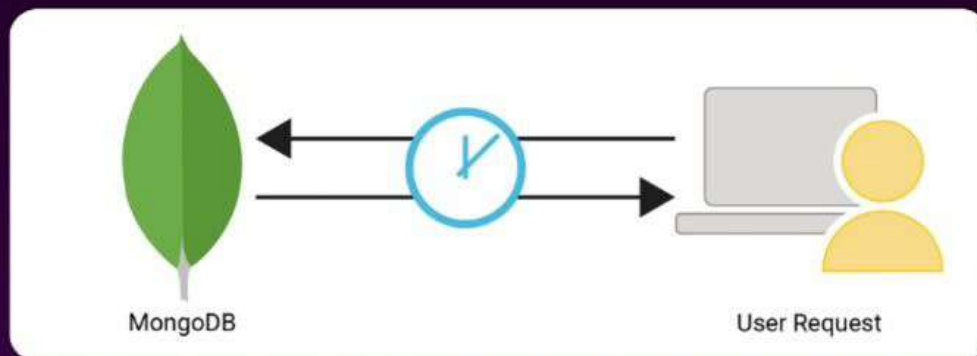
- Each of these technologies plays a unique role in enabling seamless, modern web development, using a unified language: JavaScript.
- This makes it easier for developers to create dynamic, scalable applications from front to back with a single programming language.



MongoDB – The Database

- **MongoDB** is a NoSQL database that stores data in JSON-like documents.
- It allows for fast and scalable storage solutions, making it ideal for handling large datasets in modern applications.

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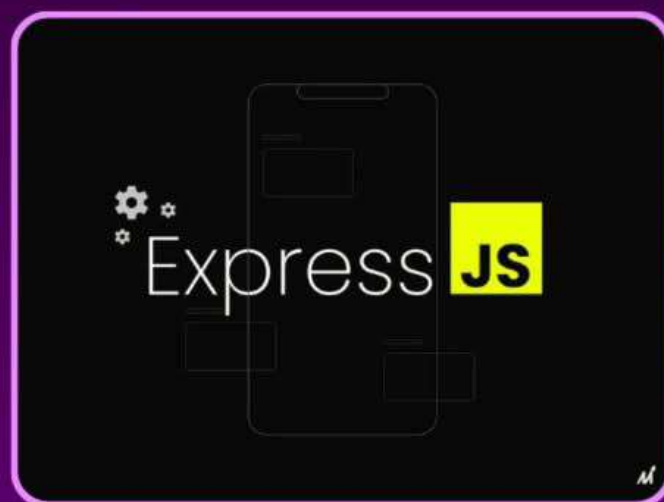
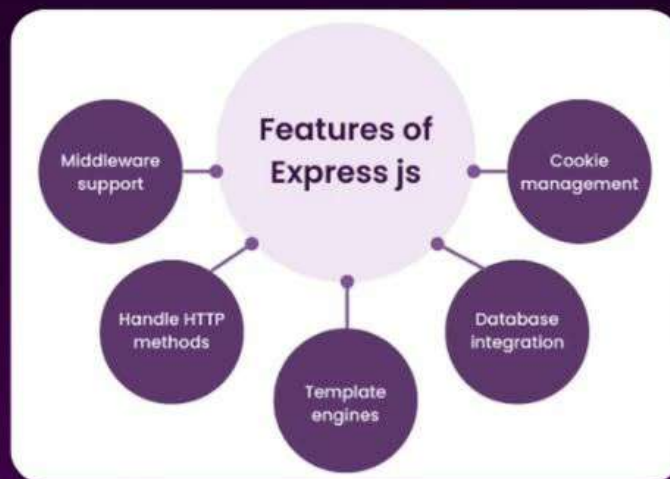
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Express.js – The Backend Framework

- **Express.js** is a lightweight and fast web framework for Node.js, providing powerful tools for building APIs.
- It simplifies backend development by managing routing, middleware, and HTTP requests with ease.

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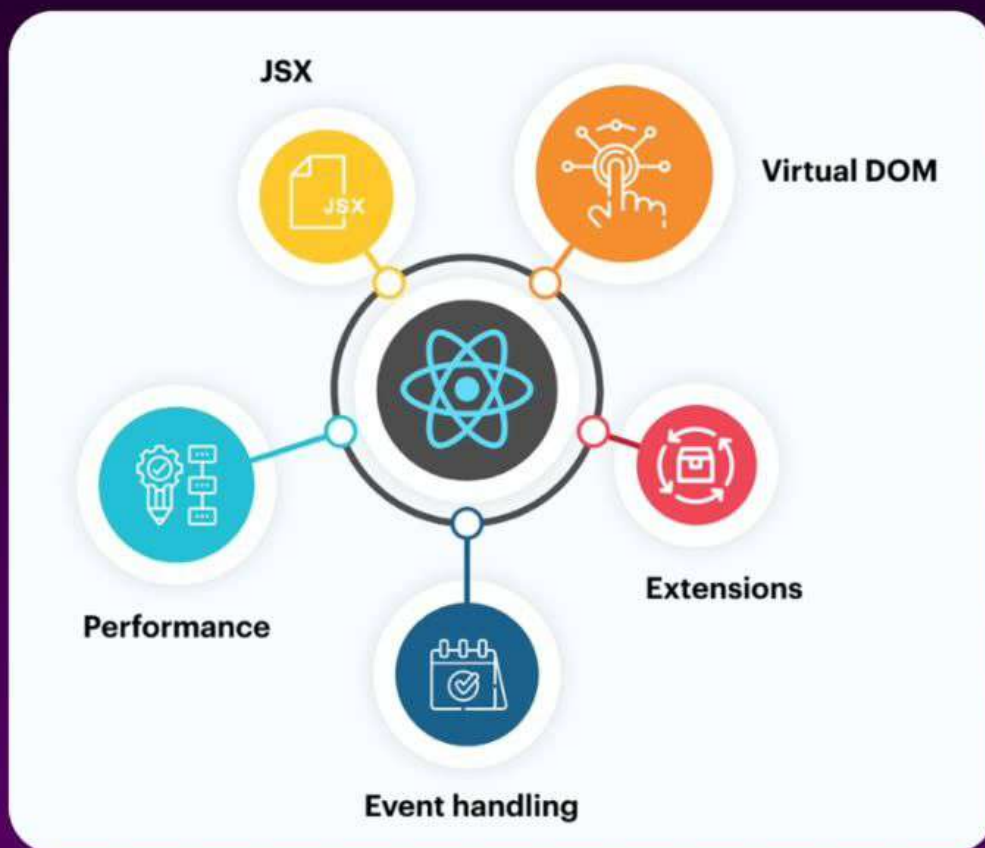
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React.js – The Frontend Library

- **React** is a JavaScript library for building fast, interactive user interfaces.
- It breaks down the UI into reusable components, allowing for a highly modular and maintainable code structure.

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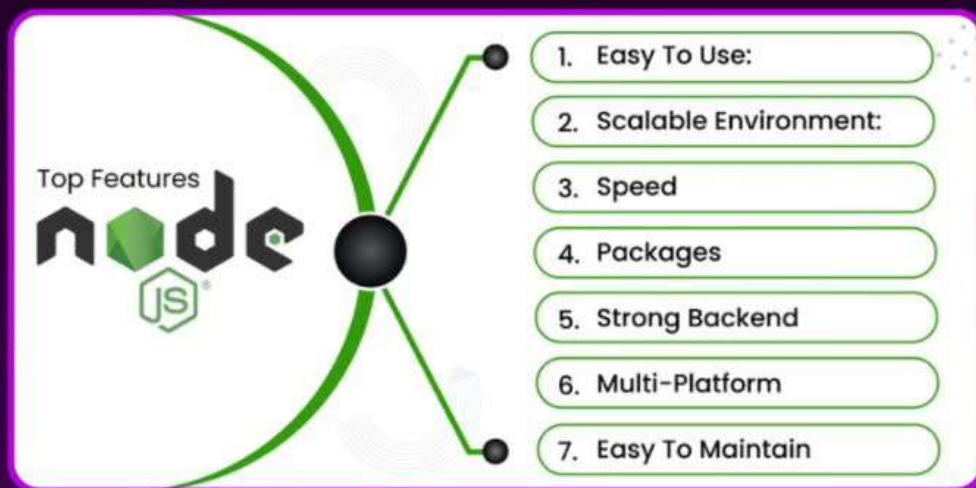


Node.js – The Runtime Environment

Node.js is a JavaScript runtime that runs on the server, enabling JavaScript to be used for backend development.

- It's non-blocking and event-driven, making it perfect for building fast and scalable server-side applications.

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How the Stack Works Together

- In the **MERN stack**, React handles the frontend, while Node.js and Express.js manage the server-side logic. MongoDB stores the application's data, allowing developers to handle both the client and server with one technology stack – JavaScript.

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