

Node.js Basics

Node.js is a popular runtime environment that allows developers to use JavaScript for backend development. This document would introduce the core concepts of Node.js, explaining how it differs from traditional server-side programming environments. One of the key advantages of Node.js is that it allows developers to use a single programming language (JavaScript) for both the frontend and backend, streamlining the development process.

The document would likely cover essential Node.js features such as non-blocking, event-driven architecture, which allows the system to handle multiple operations simultaneously. This makes Node.js ideal for building real-time applications like chat applications, collaborative tools, and streaming services. For example, a web-based chat platform built using Node.js can process messages from multiple users in real time without overloading the server.

The document would also introduce Express.js, a popular framework for Node.js that simplifies the process of building web applications and APIs. Key concepts such as setting up a basic server, handling HTTP requests and responses, and connecting to a database would be explored. By mastering Node.js, developers can build high-performance, scalable applications that can handle large amounts of traffic, making it a crucial tool in modern web development.