

NodeJS cheat sheet

▷ Event-Driven Architecture

- NodeJS employs an event driven architecture where actions on events trigger callbacks.
- This enables NodeJS to manage multiple connection simultaneously without blocking the execution thread.

▷ Asynchronous Programming

- It allow operations to be executed independently of the main program flow.
- Non-blocking I/O operations ensure efficient resource utilization and responsiveness.

▷ npm (node package manager).

- npm is the default package manager for NodeJS, facilitating the installation, sharing and management of dependencies.
- It boasts a vast repository of open source packages, enabling developers to leverage existing solutions in their projects effortlessly.

▷ Modules

- NodeJS follow a modular approach, allowing developers to organize code into reusable modules.
- Modules encapsulate functionality, promoting code maintainability and reusability.

▷ Common JS Module system

- Node.js utilizes the commonJS module system for modular development.
- Modules in commonJS are encapsulated units of code with their own scope, facilitating dependency management and code organization.

▷ Streams

- Streams are a key feature of Node.js, enabling efficient handling of data.
- They allow data to be processed in chunks, enhancing performance and scalability for tasks like file I/O and network communication.

▷ Express.js

- It is a popular web application framework for Node.js, simplifying the development of server-side applications.
- It provides robust routing, middleware support, and a host of features for building scalable web applications.

▷ Promises and Async/Await

- Promises and Async/Await are mechanisms for managing asynchronous operations in Node.js.
- They provide cleaner and more readable syntax for handling asynchronous code compared to traditional callback-based approaches.