Node.Jc cheat sheet

Event Driven Architecture

⌊→ Node.js utilizes an event driven architecture where certain actions or event trigger callbacks. This enable node.js to handle multiple conn. simultaneously without blocking the execution thread.

Asynchronous Programming

⌊→ Allow operation to be executed without waiting for the previous operation to complete.

⌊→ Achieved using callbacks - promises or async/await syntax.

npm (Node pakage manager)

⌊→ Is the deafault package manager for Node.Js used for installing managing & shanring packages/modules.

⌊→ It simplifies dependency management & facilitates package distribution.

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Modules

- Node.js follow the CommonJS module system for structuring code into reusable modules.

- Modules encapsulate related functionality and can be imported / exported using require() & module.exports.

File System (fs) module

⤷ provide file system - related functionality for reading writing and mainpulating.

⤷ It offers both synchronous & asynchronous method.

HTTP module.

⤷ Node.js includes an HTTP modules for creating web servers & handling HTTP req.

⤷ It enables building scalable & high performance web app.

Streams

⤷ powerfull features in Node.js for handling large amount of data. They allow data to be read from or written to a source in chunks, reducing memory usage & improving performance