W Node.js Cheat Sheet

1. Event - deiven Dochitecture

- Node is utilizes an event-driven, non-blocking I/O model, making it lightweight and efficient for handling concurrent connections.
- It is architecture allows Node. is to handle multiple client requests without getting blocked, improving performance and scalability for real-time applications.

2. Asynchronous Programming

- Node. is is designed to handle asynchronous programming. enabling multiple operations to be executed without blocking the execution flow.
- It is achieved using callbacks, promises and async/await, allowing developers to write non-blocking code efficiently.

3. npm (Node Package Manager)

- npm is the default package manager for Node.js
- It simplifies the process of installing, managing, and sharing reusable javascript code packages.
- with npm, developers can easily add functionality to their applications by installing parkages from the npm registry.

4. Modules

- -> Node. js uses a modular architecture, allowing developers to break down application into smaller, reusable modules.
- -) Node. is implements the Common TS module system, allowing modules to be imported and exported using require() and module. exports.

5. Common JS Module System

- -> Node.js follows the CommonTS module system, enabling modular development.
- with common JS, modules can be created and reused easily.

6. Callbacks

- -) Callbacks are functions passed as arguments to other functions in Nodejs, faciliating asynchronous programming.
- They allows asynchronous operations to be executed sequentially or in parallel.

7. Promises

- Promises provide an alternature to caubacks for handling asynchronous operations in Node. js.
- They simplify asynchronous code and make it more readable and maintainable.
- > used to handle overes more effectively and improve code readability.

8. Async/await

- It is a modern approach to asynchronous programming in Node. is.
- Async/Await builds on top of promises, providing a more intuitive way to harde asynchronous operations.

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