**Node.JS WEEK1**

**Introduction to Node.js**

Node.js is a cross-platform, open-source JavaScript runtime environment that can run on Windows, Linux, macOs and more.

With Node.js application development extends to both personal laptops and cloud environment.

Widely used JS tool.

JavaScript & Node

Pros of JavaScript:

* Front end & back-end share language.
* Front end & back-end share code.
* Dynamic language.
* Works well with JSON (JavaScript Object Notation)

Callbacks & Asynchronous Tasks:

When we perform synchronous tasks, we must wait for each task to be completed before moving on to the next, causing blocking. Conversely, executing tasks asynchronously allows us to proceed to the next task without waiting for the prior one to finish. An illustration of synchronous processing can be seen in applications were submitting a form result in a greyed-out screen until a response is received, indicating a synchronous background process that hinders user interface responsiveness until completion.

Npm-Node Package Manager

Node Globals

What is a Module in Node.js?

* Consider Modules to be the same as JS libraries.
* A set of functions you want to include in your application