WEEK 2 Module 7
NodeJS Fundamentals

HTTP Module

The built-in http module in NodeJS allows us to use NodeJS in building asynchronous and non-blocking web applications and networks that users can connect to in a concurrent manner.

The http module is all powerful on its own and relies on the events module and event loop for proper functionality.

For more information on the http module, visit

https://nodejs.dev/learn/the-nodejs-http-module

https://nodejs.org/api/http.html

Stream

What do you do when your file gets too large to be read all at once? You break it into chunks! This is what the NodeJS stream class allows us to do. We can read files in chunks and write file in chunks. This is particularly useful in live streaming services and video or audio over internet protocols.

For more information on the Stream class, visit

https://nodejs.dev/learn/nodejs-streams

Events and Event Loop

The Event Loop is one of the most important aspects to understand about Node.js.

Why is this so important? Because it explains how Node.js can be asynchronous and have non-blocking I/O, and so it explains basically the "killer app" of Node.js, the thing that made it this successful.

The Node.js JavaScript code runs on a single thread. There is just one thing happening at a time.

But how does this work? Well, we will go over it a little in the module but you should also check out the following links for more info.

https://nodejs.dev/learn/the-nodejs-event-loop

https://nodejs.dev/learn/the-nodejs-events-module