12/06/2024

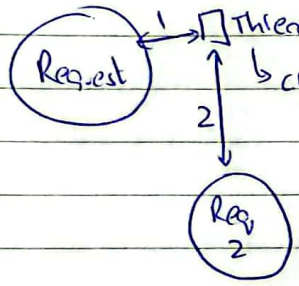
LEARNING NODE.JS

↳ prog with mosh YT vid

runtime env for running JS → on server → uses same V8 JS engine as browser

usually only run on BROWSER

Node.js
→ Non Blocking & Asynchronous Architecture → not one by one, multiple req-ests can be handled together



→ one thread can handle multiple req's → makes Node.js highly scalable!

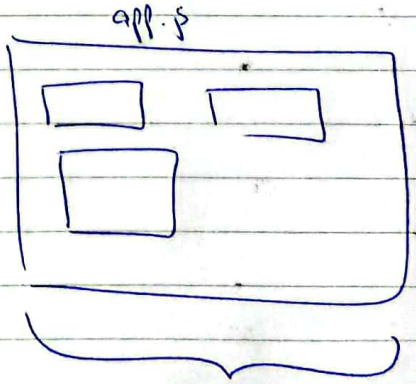
→ Node.js → used for data intensive, real time Apps
↳ not CPU intensive apps,
makes sense cause one CPU thread can get overloaded and the other req-ests are left waiting!

→ Node.js runs JS code

Node Module Sys

① OS
② File System
② Events
③ HTTP

* Avoid defining func / variable names in global scope



MODULE

every file is a module → variables / func.'s that are of that scope!

console.log(module)

OUTPUT: {

id = "." , ⟶ d

exports : {}, ⟶ used to access diff (outside modules)

filename : ' ', ⟶ complete path to file

loaded : false, ⟶ boolean

children : [], * will make sense later.

paths : [

]

}

* Node wraps the code inside the module, in the form of a function

(function (exports, require, module, __filename, __dirname) { } ⟶ NOT IMP!

NODE BUILT IN MODULES

① PATH -> Makes it easier to work with paths, rather than dealing with the path as a string

↳ root
dir
base → name of file where its called
ext : ".js" } splits the name & extension (from filename)
name : "app" }

② OS → get total memory, free memory

③ FILE SYSTEM → always use asynchronous methods.

④ EVENT → EventEmitter } CLASS → : we to create object

const Event Emitter = require('events');

const emitter = new Event Emitter();

⑤ HTTP Module