Discussion 3.1 Modules

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Node.js modules are defined by tutorialsteacher.com that “is a simple or complex functionality organized in a single or multiple JavaScript files which can be reused throughout the Node.js application.” (*Node.js Modules*, n.d.). They are separate JavaScript files that are their “own context” (*Node.js Modules*, n.d.). and it will not interfere with the other modules you are working with.

There are three module types. Core Modules, Local Modules and Third-Party Modules. Examples of Core Modules are http, url, querystring, path, fs and util. (*Node.js Modules*, n.d.-b) They are loading by including this syntax: const module = require(‘module\_name’) or const http = require(‘http’); (*Node.js Modules*, n.d.-b)

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(*Node.js Modules*, n.d.).

The require() function returns functions, objects, property or other types. (*Node.js Modules*, n.d.).

The local module are the modules you create locally in Node.js and can be packaged and sent with a npm so other developers in the community may use it. (*Node.js Local Modules*, n.d.)

The syntax for a local module, you can run this by typing node app.js into your CLI.

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(*Node.js Local Modules*, n.d.) You can even export modules in node.js. using the module.exports, which is an object in all JavaScript. Module is the variable for the module you are using and the exports “in an object that will be exposed as a module” (*Node.js Local Modules*, n.d.).

Example of syntax: module.exports = ‘Hello World’; and it will use whatever you assign it as, in this case a string. (*Node.js Local Modules*, n.d.)

 https://www.tutorialsteacher.com/nodejs/nodejs-module-exports

you can then also run it in the cli with node app.js and it will log Hello World to the CLI. (*Node.js Export Module*, n.d.)

Why do we need Node.js modules? Because they are code that is separated externally based on how they work, can be a single file or multiple. But the biggest reason is because they are reusable and make code more manageable especially helpful when the code becomes larger and more complicated to read. (GeeksforGeeks, 2021)

References:

*Node.js Modules*. (n.d.). Retrieved January 16, 2023, from <https://www.tutorialsteacher.com/nodejs/nodejs-modules>

*Node.js Modules*. (n.d.-b). Retrieved January 16, 2023, from <https://www.w3schools.com/nodejs/nodejs_modules.asp>

<https://www.tutorialsteacher.com/nodejs/nodejs-local-modules>

GeeksforGeeks. (2021, December 6). *Node.js Modules*. Retrieved January 16, 2023, from https://www.geeksforgeeks.org/node-js-modules/