Full Stack QAP1

Github Repo URL: https://github.com/RobV34/fullStack1

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Date: Jan 26th, 2024

1. How many hours did it take you to complete this assessment? (Please keep try to keep track of how many hours you have spent working on each individual part of this assessment as best you can - an estimation is fine; we just want a rough idea.)

Approximately 4-5 hours

1. What online resources you have used? (My lectures, YouTube, Stack overflow etc.)

Mainly W3 schools for the first problem. A combination of lectures YouTube videos as well.

1. Did you need to ask any of your friends in solving the problems. (If yes, please mention name of the friend. They must be amongst your class fellows.)

I did not.

1. Did you need to ask questions to any of your instructors? If so, how many questions did you ask (or how many help sessions did you require)?

I did not need to but I am glad the support is there when I do need it.

1. Rate (subjectively) the difficulty of each question from your own perspective, and whether you feel confident that you can solve a similar but different problem requiring some of the same techniques in the future now that you’ve completed this one.

It was more interesting than difficult. I feel I am getting familiar with using git. The pdf slide show was helpful. Really cool.

**Task #1:** Core Global Objects in Node.js

1. **File System (fs)**

Common uses for the File System module include:

fs.readFile() reading files

fs.open(), fs.writeFile(), fs.appendFile() create files

fs.unlink() delete files

fs.rename() rename files

1. **Console**

Node.js console module is a global object that provides a simple debugging console similar to JavaScript to display different levels of message. It is provided by web browsers. It allows you to output strings, variables, and other data to the terminal. This module is a global module, which means it's available in all modules without requiring it via require().

Common uses for the console module include:

console.log() outputs a message

console.error() outputs an error message

console.time() uses a timer to track operation duration

console.assert() writes an error message if assertion is false

1. **OS**

The OS module provides information about the computer's operating system.

Common uses for the os module include:

os.platform() retrieve operating system platform (ex: linux, win32)

os.totalmem() retrieve total system memory in bytes

os.freemem() retrieve free system memory in bytes

os.networkInterfaces() retrieve network interfaces and their details

**Task #2:** Understanding NPM

I installed the Validator package and wrote a simple program to verify email address and web address with methods validator.isEmail and validator.isURL.