

File I/O: Country Info App



Goal

Create a Node.js application to read in and search a JSON file using a command line argument.

Assignment

As a traveling developer, you always wanted a command line tool to help you get quick information on prospective destinations. You recently got hold of a file (`countries.json`) that has all the info you want! However it's a pain to open that JSON file in your text editor over and over whenever you need information. **You just love your terminal that much!**

With your newfound skills you decide to make a Node.js application that

helps you search that data easier.

Part 1:

Your application should;

- Take in one parameter from the command line, the name of a country. *Note: command line arguments can be read from the global array `process.argv`*
- Read and parse the `countries.json` file. Note: you must use **readFile** and not **readFileSync**.
- Output information about that specific country in the following format:

```
Country: <country name>
Top Level Domain: <tld>
...
```

Part 2:

- For this part, create a separate module for reading and parsing the JSON file, named "json-file-reader".
- This module should have a function that takes in a filename and a callback function as a parameter. It should then read that file, then parse the JSON. Finally, it should invoke the callback function and pass the parsed JSON to it.
- One way to think of this module is as a helper that can read and parse any JSON file. It has nothing to do with 'countries', so to speak.
- Another way to think of it is as a small wrapper to `fs.readFile`, except that this function only works with JSON files.

Hints:

- Use `JSON.parse` to parse JSON data from files into a JavaScript object.
- Try first completing the assignment without creating a separate module - Extracting the second module out is significantly more difficult.

Grading Criteria

The program:

- Can accept at least one command line argument.
- Reads in the `countries.json` file using the `readFile` method from `fs`.
- Passes the filename and a callback function to `json-file-reader` and handles the JSON parsing in there.

Complete = Meets all grading criteria above.

Incomplete = Does not meet all grading criteria above. Needs improvement or missing submission.