0x14. JavaScript - Web scraping

In a nutshell…

- **Auto QA review:** 0.0/67 mandatory & 0.0/20 optional
- **Altogether: 0.0%**
  - Mandatory: 0.0%
  - Optional: 0.0%
  - Calculation: 0.0% + (0.0% * 0.0%) == **0.0%**

Resources

Read or watch:

- Working with JSON data
- The workflow of accessing the attributes of a simply-created JSON object by Jimmy Tran from Cohort 1 - San Francisco
- request module
- Modern JS

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone, **without the help of Google**:

General

- Why JavaScript programming is amazing
- How to manipulate JSON data
- How to use `request` and fetch API
- How to read and write a file using `fs` module

Copyright - Plagiarism

- You are tasked to come up with solutions for the tasks below yourself to meet with the above learning objectives.
- You will not be able to meet the objectives of this or any following project by copying and pasting someone else's work.
- You are not allowed to publish any content of this project.
- Any form of plagiarism is strictly forbidden and will result in removal from the program.

Requirements

General

- Allowed editors: `vi`, `vim`, `emacs`
- All your files will be interpreted on Ubuntu 14.04 LTS using `node` (version 10.14.x)
- All your files should end with a new line
- The first line of all your files should be exactly `#!/usr/bin/node`
- A `README.md` file, at the root of the folder of the project, is mandatory
- Your code should be `semistandard` compliant. Rules of Standard + semicolons on top. Also as reference: AirBnB style
- All your files must be executable
- The length of your files will be tested using `wc`
- You are not allowed to use `var`

More Info

Install Node 10

```
$ curl -sL https://deb.nodesource.com/setup_10.x | sudo -E bash -
$ sudo apt-get install -y nodejs
```

Install semi-standard

Documentation

```
$ sudo npm install semistandard --global
```

Install `request` module and use it

Documentation

```
$ sudo npm install request --global
$ export NODE_PATH=/usr/lib/node_modules
```

Notes: Request module has been deprecated since February 2020 - the team is considering alternative to replace this module - however, it's a really simple and powerful module for practicing web-scraping in JavaScript (and still used a lot in the industry).

Tasks

0. Readme
mandatory

Score: 0.0% (*Checks completed: 0.0%*)

Write a script that reads and prints the content of a file.

- The first argument is the file path
- The content of the file must be read in `utf-8`
- If an error occurred during the reading, print the error object

```
guillaume@ubuntu:~/0x14$ cat cisfun
C is super fun!
guillaume@ubuntu:~/0x14$ ./0-readme.js cisfun
C is super fun!

guillaume@ubuntu:~/0x14$ ./0-readme.js doesntexist
{ Error: ENOENT: no such file or directory, open 'doesntexist'
    at Error (native)
  errno: -2,
  code: 'ENOENT',
  syscall: 'open',
  path: 'doesntexist' }
guillaume@ubuntu:~/0x14$
```

Repo:

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x14-javascript-web_scraping`
- File: `0-readme.js`

Done? Help Check your code Ask for a new correction Get a sandbox QA Review

1. Write me
mandatory

Score: 0.0% (*Checks completed: 0.0%*)

Write a script that writes a string to a file.

- The first argument is the file path
- The second argument is the string to write
- The content of the file must be written in `utf-8`
- If an error occurred during while writing, print the error object

```
guillaume@ubuntu:~/0x14$ ./1-writeme.js my_file.txt "Python is cool"
guillaume@ubuntu:~/0x14$ cat my_file.txt ; echo ""
```

```
Python is cool
guillaume@ubuntu:~/0x14$
```

Repo:

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x14-javascript-web_scraping`
- File: `1-writeme.js`

Done? Help Check your code Ask for a new correction Get a sandbox QA Review

2. Status code

mandatory

Score: 0.0% (*Checks completed: 0.0%*)

Write a script that display the status code of a `GET` request.

- The first argument is the URL to request (`GET`)
- The status code must be printed like this: `code: <status code>`
- You must use the module `request`

```
guillaume@ubuntu:~/0x14$ ./2-statuscode.js https://alx-intranet.hbtn.io/status
code: 200
guillaume@ubuntu:~/0x14$ ./2-statuscode.js https://alx-intranet.hbtn.io/doesnt_exist
code: 404
guillaume@ubuntu:~/0x14$
```

Repo:

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x14-javascript-web_scraping`
- File: `2-statuscode.js`