LAB 2

Lab2 - HTTP server

1- Provide Server to List Inventory

- Use a filesystem (Use the **stream** module).
- **Add an inventory Item: localhost:3000/inventory (using curl or postman)**
- Both Lab01, Lab02 should use the same JSON file (used as database).
- You should have 3 pages
  - **Page One: Home page localhost:3000/** it's what the users see when they first land on our website. It'll show our inventory list that the user entered from yesterday (just Viewing). (don't show the id)
  - **Page Two: Astronomy page: localhost:3000/astronomy**
    - Should display this image along with a few lines of description.
  - **Page Three: Serbal page: localhost:3000/serbal**
    - Should display this image along with a few lines of description.
  - **Page Four: 404 page not found (just simple html)**
- **Style** your page, serve the css file **separately**, from disk.
- Serve image from disk.
- Use read **streams**.

2- Read about ESM, how, pros, why they chose it over CJS
3 - Read about circular dependency

Bonus:
- Add a new route to download this image. (trigger the download dialog) **localhost:3000/astronomy/download**

    Hint: look-up for the correct header ;)

Notes:
- **Make sure to try the debugging environment**

- **Make sure that you enable restart on change using nodemon**
- **Make sure to split your logic into modules**
- Please make sure that you separate your logic in functions
- Make the names of your functions and variables are expressive of what they are
- Start by defining each functionality and the steps you should make to achieve it
- Please make sure not to pollute the global scope[refrain from using global variables]
- Before writing a function, ask yourself, is there a function in javascript that can do that, if not, write your own.

Tips:
- If you can't do something, search, then ask for help, this is not an exam.
- Please please please, don't copy someone else's code.

Useful Links:
- npm | build amazing things
- Nodejs Docs
- Fs module docs fs (you will need to use the sync version of the functions)[ends with the word Sync]
- HTTP module to make your http server
- Nodemon for restarting node
- Headers - Web APIs
- Introduction to Node.js

Please send the labs to either, please write your name and lab01 in the title of the email, also the name of the folder and I'll reply to each e-mail with the notes and comments.
OR email me the github link, make sure to ignore the node module folder
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mohamedgomran+osad43@gmail.com

Useful Readings:

- [Build an HTTP Server](#)
- [An introduction to the npm package manager](#)
- [The V8 JavaScript Engine](#)
- [How the Web works - Learn web development](#)

Must read before Day3:
- **[REST API Best Practices – REST Endpoint Design Examples](#)**