Purpose Coding Challenge Instructions

- 1. Git repository: https://github.com/Syndicate555/purpose-coding-challenge
- 2. Dependencies

These following packages need to be installed in the machine to run the project

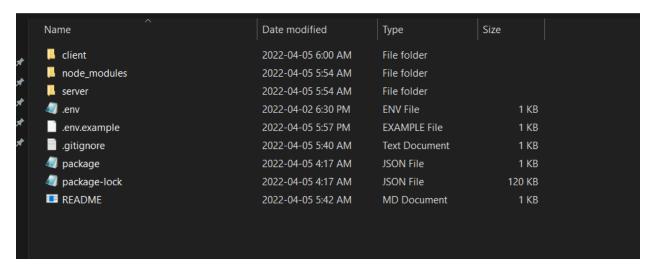
- Nodejs https://nodejs.org/en/download/
- Npm
- 3. Installation & usage instructions

After cloning the repo, on the root directory, enter the following commands to install and run the project

- npm run configure (this will install all the necessary packages)
- npm run dev (this will start the app and a browser window will open automatically)

Upon successful installation, there should a new folder called 'node_modules' created in the root directory and the client directory. It should look like this

Root directory:



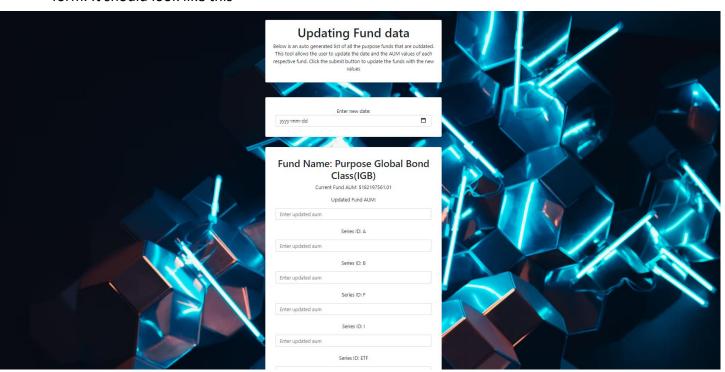
Client:

Name	Date modified	Туре	Size
node_modules	2022-04-05 6:00 AM	File folder	
public	2022-04-05 6:00 AM	File folder	
src src	2022-04-05 6:00 AM	File folder	
gitignore	2022-04-02 1:10 AM	Text Document	1 KB
package	2022-04-02 8:19 PM	JSON File	1 KB
package-lock	2022-04-02 8:19 PM	JSON File	1,098 KB
■ README	2022-04-02 1:10 AM	MD Document	4 KB

^{*}Note: Make sure nothing is running on the localhost port 5000 or port 3000

Explanation:

- 1) I first broke down the requirements into two tiers frontend + backend
- 2) I started by creating the server using nodejs and the express framework. I created two API endpoints. The GET endpoint fetches the source data from the URL provided, formats it and filters out the funds that have their date older than 1 day. It then returns the filtered data as json. This data will be used to generate the form in the frontend
- 3) The POST endpoint accepts the updated form data and does the following
 - a. Writes the updated data into a csv file inside the csv folder. The file name is new-funddata.csv
 - b. It then fetches the entire fund data from the URL provided and overwrites all the data from the form.
 - c. It then saves the updated data with the new date and aum values into a json file. The file will be saved in the root directory of the project. The name will be fundData.json
- 4) I used the CORS package to only allow the frontend (using localhost:3000) to fetch data using the APIs
- 5) The frontend will use the GET endpoint to fetch all outdated fund data and dynamically generate a form. It should look like this



6) I used some basic CSS and bootstrap to style the frontend

Testing:

The APIs can be tested in isolation using any HTTP client such as Postman or Insomnia.

1) GET endpoint: http://localhost:5000

This should return all outdated fund data

2) POST endpoint: http://localhost:5000/submit

This endpoint will take in a json body. I have included a sample json payload in the testing folder (insider server folder). Use this payload in the body of the request to test the POST endpoint.