

You are working in a stock trading company and want to develop an application that will help your colleagues analyze the data faster and make statistics upon those data.

You want to achieve the following using a **NodeJS application**:

- 1) The app should be able to read the data from a **json file** and store it in memory for processing.
- 2) **Search functionality**: given a **stock name** in the console the application should **return the requested object formatted** in a human readable format. (If someone non-technical would look at the returned data would understand it easily)
- 3) **Filter functionality**: Given a number as the **stock price** and a **boolean value as order by** ascending as 1 or descending 0 return **all stock objects** in a human readable format that satisfies both conditions.

Example:

Input values: stockPrice = 10, orderBy = 1

Will return all stocks with stockPrice >= 10 in ascending order.

{ stockName: 'AAPL', stockPrice: 10 }, { stockName: 'TSL', stockPrice: 12 } ... etc

- 4) **New data**: The user should be able to introduce new data using the console, the data introduced should follow the **same model** as the existing ones in the **json file**. After the data is introduced it should be **saved in the json file** and should be accessible in the same way as the other data in the file.
- 5) **API**: Create a REST api for the above functionalities, the created endpoints should be accessible on 127.0.0.1 (localhost), using HTTP request methods.
- 6) **I am extra awesome**: For extra points write a GUI for the created API, that should manage the created functionalities.

(The GUI can be written in any language or technology although React / React Native is preferred.)

Best of luck,

RacketPal Team ;)