PHP Exercise - v23.0.0

Introduction

When implementing this solution try to keep in mind,

- Separation of concerns and reusability
- Best coding practices
- Performance optimizations whenever possible
- Portability of the application

Exercise

In this exercise you need to create a PHP application that will have an endpoint which receives the following values:

- Company Symbol
- Start Date (YYYY-mm-dd)
- End Date (YYYY-mm-dd)
- Email

You can adjust the above property names based on your API implementation best practices.

The available options for the *Company Symbol* field can be found here:
https://pkgstore.datahub.io/core/nasdaq-listings/nasdaq-listed_json/data/a5bc7580d6176d60ac0b2142ca8d7df6/nasdaq-listed_json.json

After the endpoint is used, the following actions must be done:

1) Validate the values and return the appropriate messages. Validation rules:

- *Company Symbol*: required, valid symbol
- *Start Date*: required, valid date, format YYYY-mm-dd, less or equal than End Date, less or equal than current date
- *End Date*: required, valid date, format YYYY-mm-dd, greater or equal than Start Date, less or equal than current date
- *Email*: required, valid email

2) Return the historical quotes for the submitted *Company Symbol* in the given date range. Item properties:

Date | Open | High | Low | Close | Volume

You can adjust the above property names based on your API implementation best practices.

Historical data should be retrieved using
"https://yh-finance.p.rapidapi.com/stock/v3/get-historical-data" API.

Example:
https://yh-finance.p.rapidapi.com/stock/v3/get-historical-data?symbol=AMRN&region=US

Header Parameters:

- X-RapidAPI-Key: XXXXXXXXXXXXXXXXXXXXXXXXXXXX
- X-RapidAPI-Host: yh-finance.p.rapidapi.com

Required Parameters:

- symbol

Optional Parameters:

- region

NOTE: The historical data service requires the token X-RapidAPI-Key, which is provided in the same email as this document.

3) Send to the submitted *Email* an email message, using as:
- **Subject:** The submitted company's name
  - i.e. for submitted *Company Symbol* = GOOG => Company's Name = Google
- **Body:** *Start Date* and *End Date*
  - i.e. From 2020-01-01 to 2020-01-31
- **Attachment:** The retrieved historical quotes as a CSV file. Data columns:
    Date | Open | High | Low | Close | Volume

Notes
- The exercise can be developed using plain PHP, but Symfony is preferred
- Tests are mandatory part of the exercise
- Keep in mind that we cannot change "/etc/hosts" or "C:\Windows\System32\drivers\etc\hosts" on our PCs
- Create a private GitHub repository and share it with the account: phpinterviews@trading-point.com
- Have fun

Bonus

Consider the following for a better solution,

- Use Docker
- Have 100% testing coverage
- Use Dependency Injection
- Provide OpenAPI documentation