Stock Market Pricier

Version 2.3

In short

Your task is to write an endpoint that accepts JSON-formatted payload with FX rate currency code as input and returns a list of daily close prices from the US stock market.

You should use MarketStack free API for stock prices and exchangeratesapi.io for currency rates. (Using each day's close FX rate)

Input data

JSON payload consists of 3 keys: "symbol" which indicates the stocks ticker, "currency" which is referencing the currency of price in response and "date" field, which contains the range for days needed to be included in the response.

If the source currency is not matching the requested one, you have to convert the price to the requested one.

symbol	Any valid ticket, for ex. AAPL
currency	Any valid currency, for ex. EUR, USD
date	<start>-<end>, ex. 10.01.2022-10.02.2022

Special cases

- If Market Stack API is not providing price for particular day in requested range (markets were closed) , you should use price from a previous day
- If date field is empty, then endpoint should return data for the last month
- Date may be formatted in one of those formats:
    - Month-Day-Year with leading zeros (02/17/2009)
    - Day-Month-Year with leading zeros and dots as separators (17.02.2009)
    - Month name Day, Year like this (February 17, 2009)

Deliverable

Part 1

Build a HTTP API that accepts payload and returns a valid response

Example of response

```
{
  "symbol": "AAPL",
  "currency": "EUR",
```

```
    "daily_close": {
      "2022-02-01": 1234.4,
      "2022-02-02": 1243.1,
      "2022-02-03": 1257.3
    }
  }
```

Description

symbol	Ticker from request
currency	Currency code from request
daily_close	List of close price per day in defined rage of dates

Part 2

Tell us what you think about the date formats. Is the current JSON structure the best way to represent that kind of data or can you come up with a better version? There are no right answers here.

Please write your thoughts to README.md

Sending the assignment

The code should be checked-in to your GitHub account in a private repository.

If it is possible, include short instructions on how your application can be deployed and run.

We consider this exercise as “a PR review”. Our developers will check the code, tests and overall structure. We prepare comments and questions that we want to ask you during the interview.

A word about potential edge cases

If you are not sure about the expected behaviour in some edge cases, please take the best approach you can think of and document your assumptions as part of the README.md

Technology

We expect you to implement an application using Python as a programming language. Feel free to use any 3rd party framework or library your like.