



Full-Stack PHP Developer Candidate Programming Test

Hi, Prospective Fool!

Thank you for agreeing to give up a little of your time to complete this coding exercise. The purpose of this project is twofold:

- Helps you demonstrate some basic development skills; allows us to gauge an at-first-glance of your ability and style.
- Provides us something specific to talk about if we bring you in for an in-person interview. We'll be interested in how you approach the problem, what problems you ran into, what you found most challenging etc...

The Objective:

So, for this exercise we'd like you to build and deploy **a simple PHP web application** which:

- Converts prices of financial ticker symbols from US Dollars (**USD**) to Singapore Dollars (**SGD**)
- Rounds the amounts to the **nearest one-hundredth**.
- You should use real market currency exchange rates from this date range: **July 24, 2017 – July 25, 2017**.

This is a somewhat typical representation of one kind of work you may well find yourself doing if you joined our team.

Time Limit:

There is no time limit. Please complete the exercise on your own time, at your own pace. Ideally you will complete within a few days so that not too much time passes before we talk to you again.

Data and Resources:

- Export this [Google Sheet](#) as .csv to get the initial data set. You'll see prices for three different ticker symbols on the FOOL exchange — `FOOLX`, `TMFGX`, and `TMFFIB` — are listed over a two-day period.
- Use the <http://fixer.io> API to retrieve exchange rates. (Remember to pull data for the appropriate **date-range**.)
- Deploy to whatever app hosting platform you prefer (e.g. Heroku, DigitalOcean, AWS, Google App Engine, personal LAMP server, etc...).
- Please provide us with app access instructions so we'll be able to see the results.
- Please also provide access to source (.zip & email, or push to GitHub, etc...). We don't want to keep your code, although we want to review it and use it as a guide to drive our next conversation.

Required Application Features

- Import and **persist** provided data. (Pick the most appropriate storage solution, whatever you believe works best.)
- Develop a web interface to display the price of ticker symbols in **USD** and **SGD** given any combination of ticker symbol and date. Users may request all ticker symbols or all dates.

Though most PHP frameworks would greatly aid in developing these features, the more original code you write, the better understanding of your development skills we have. We don't expect you to roll your own MVC (unless you want to), but remember this is an opportunity to highlight your abilities as a developer.

Examples

Ticker Symbol: `TMFGX`

Date: `2017-07-24`

Sample Display:

TMFGX Prices for 2017-07-24

USD	SGD
119.90	163.24
120.00	163.38

...	...
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Ticker Symbol: ALL

Date: 2017-07-25

Prices for 2017-07-25

TICKER	USD	SGD
FOOLX	24.37	33.14
TMFGX	120.24	163.49
...

Bonus Points:

- Paginate results to five per page.
- Make the app work without refreshes.

Help:

Need clarification on something or have a question for us? Please submit your question via this google form:

<https://docs.google.com/forms/d/e/1FAIpQLSeqcU1tdvnJlw6Ri8gNV3grJM8HNbAydv3k3vICKwWd7U1Clw/viewform>.

Good luck!

