

Prophet

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Prophet is a forex data visualization app that has over 20,000 forex pairings. The goal is to keep it as simple to use as possible.

API used

Alpha Vantage - <https://www.alphavantage.co/documentation/>

Libraries used

fuel - <https://github.com/kittinunf/fuel> - Fuel is a simple to use Http wrapper that handles asynchronous routines under the hood. I picked this over the other libraries as it was simple to use and very lightweight.

robinhood/spark - <https://github.com/robinhood/spark> - It is a sparkline graph library by Robinhood. I like the overall aesthetic of it and its helper methods make visualization much easier.

robinhood/ticker - <https://github.com/robinhood/ticker> - It is a simple text view modified for better animations. I used it as it fits the context of the app really well.

horizontalPicker - <https://github.com/adityagohad/HorizontalPicker> - It is an adapter library for recycler view to help ease the process of customizing it to be a horizontal scroll picker.

Features

- Over 20,000 forex pairings.
- Simple visualizations.
- Scrub on the graph to see more info about the currency pairing.

Wishlist

- Adding a brokerage API and Stripe integration to enable trading.
- Exposing our algorithm to the app so the trades are automated.
- Adding user authentication.

Grading

- I would personally give myself an A for the project. Here are the reasons:
 - The animations used in the application are appropriate and lightweight.
 - The error handling for the API responses was a lot of work due to the sheer number of values. And the app enables the user to access all the possible pairings.
 - The code is well thought out and (usually) adheres to DRY patterns.

Design

- MainActivity - serves as the entry point to the app. All the views are initialized here.
- GraphAdapter - a custom adaptor for the spark graph library.
- PickerAdapter - a custom adaptor for the recycler view based picker.

Above and beyond

- The design of the app.
- A lot of the features are completely original and required extra research to get working, eg: the fuel library, the scroll pickers, the graph libraries.