

TNPG: GoofyFruityKissableMonkeys

Roster: Marc Jiang (PM), Kevin Wang, Faiza Huda, Gordon Mo

Soft Dev

2023-5-03

Target ship date: 2023-5-24

Our Project: The Guac Fund

- data:

<https://www.kaggle.com/datasets/timmate/avocado-prices-2020>

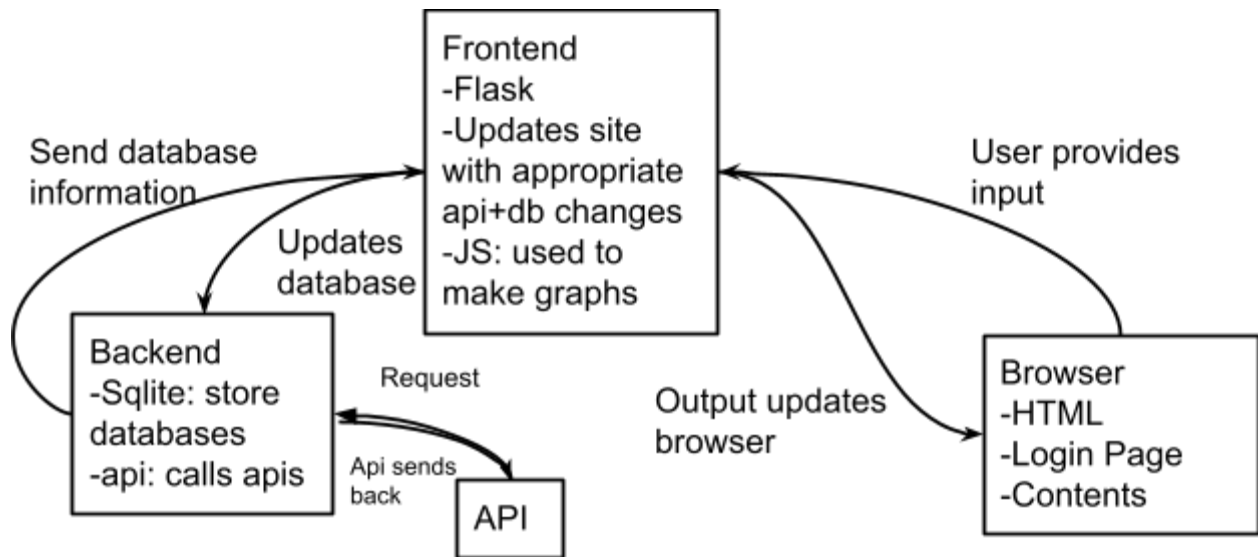
Our website will compare the prices of avocados to the prices of stocks. It will be like a higher or lower game for the user to guess. One tab will have a "higher or lower" game with a random stock for each guess. On another tab, you can pick any stock (using API) and compare it to the price of avocados. The last tab will be a leaderboard of accounts with the highest win percentage.

Each user will have to create their own account to use the website. The account will track their win/loss record and the most recent stock lookups.

Program List

1. **__init__.py** - Basic driver with Flask
2. static/css/ - Basic formatting that FEF doesn't take care of
3. static/js/ - Create line graphs that have modularity and simplicity in mind
4. templates/ - our HTML files for the respective pages we need
 - a. login.html
 - b. home.html
 - c. results.html

Component Map



Database Organization

The database will include a user table with user credentials, win/loss ratio, and their (5) most recent stock price searches. With this information we can present a leaderboard as well as streamline their stock lookups by having the cached stocks preloaded.

Authentication

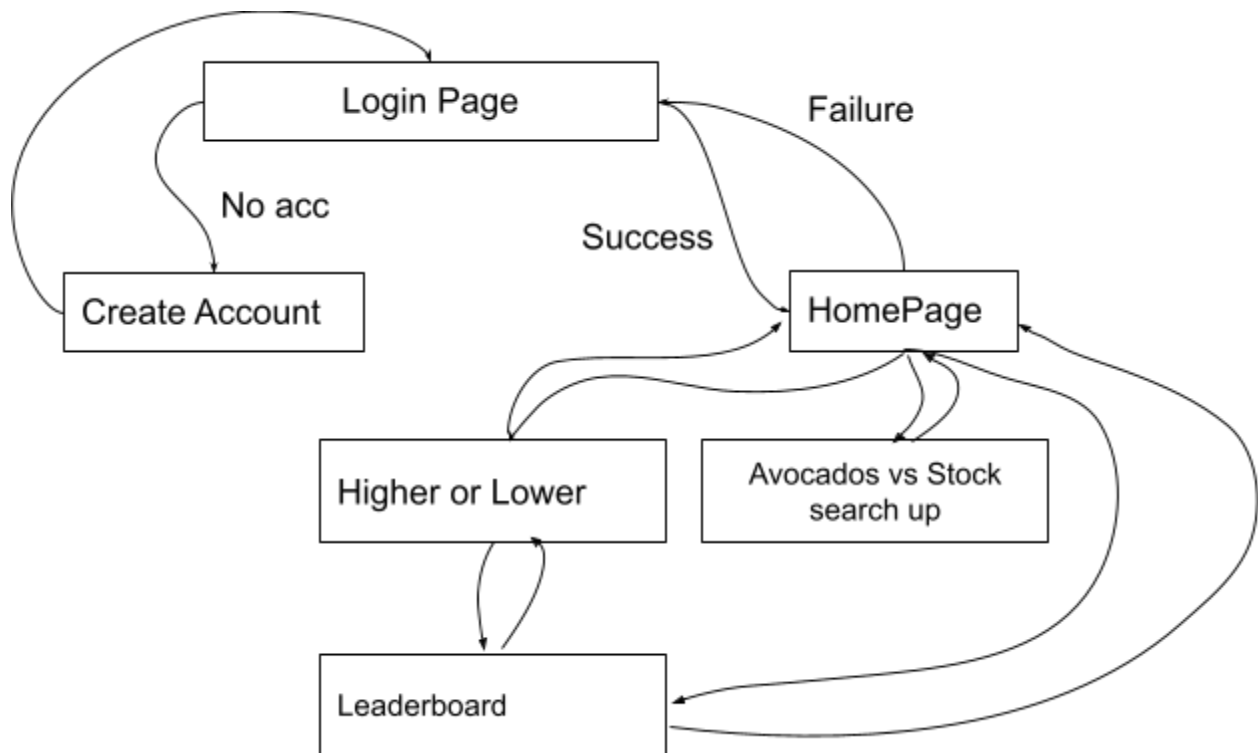
Username	Password	Wins	Losses	Five most recent searches
devo1	heheha ha	1	2	House, stock A, stock B, stock C, stock D, stock E
devo3	gabago o	4	1	Stock 1, stock 2

Database (parsed from dataset for quicker/easier calls)

Date	Average Price	Total Volume	Small	Medium	Large	Total Bags	Small bags	Medium bags	Large bags	XL bags
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	e	me				Sold				
2015-01-04	1.50	40000	1000	30000	9000	10000	3333	3333	3333	1

Site Map (Front-end)



Assignments to Members

Marc:

- PM
- APIs

Kevin:

- Front End (FEF, CSS, JS graphs)

Gordon:

- SQLite

Faiza:

- Flask

MVP:

- Account login system in place
- Basic higher or lower game that works
- Be able to create at least a line graph (price over time) of avocado prices on top of a stock

Stretch Goals:

- More data to compare against and not just stocks
 - Ex: real estate prices, cryptocurrency, etc
 - Other produce
- Avocado-based stats
 - Price of avocado toast, guacamole
- Avocado market share pie chart
 - Small, medium, large

API Section:

https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_AlpaMarketData.md

FEF Features Why and How?

Why:

- Bootstrap is easier to work with & looks cleaner.
- Bootstrap containers improve responsiveness and user experience
- Foundation is difficult to work with

How:

- Containers to make sure everything is neatly organized in accordance with screen size
- Forms to accept user input for the graphs:
 - From what date do we start comparing
 - To what asset do we compare to?