

Title/Description of Project

no-stock-GICS will find and gather information about a company so that a user can understand more before making decisions on purchasing stocks of that company.

Program Components

Landing Page

A landing page. A brief description of what the app does should be included along with directions on how to use the search function.

Ticker Symbol Lookup

This should take a search query and use the Yahoo Finance API to return a list of potential ticker symbols that match the company specified as a list of links to the associated `/stock/<symbol>` page.

Stock Information Consolidation

This should return various information about the given company in a digestible format.

1. This should include stock prices and other market data (provided by Styvio and Yahoo Finance) as well as a short description (provided by MediaWiki). Styvio also provides overall public sentiment analysis for a company and predictions about the direction of the stock price (bullish/bearish), which should also be included.
2. A line chart should display price information (we could make tabs for different time periods like day, week, month, 3 months, 6 months, year, 5 years, all time) using something like Pyplot.

User Registration and Logins

Registration and logins for user accounts, using SQLite3 as a database. Users will have a unique username and passwords will be hashed with the SHA-512 hash function.

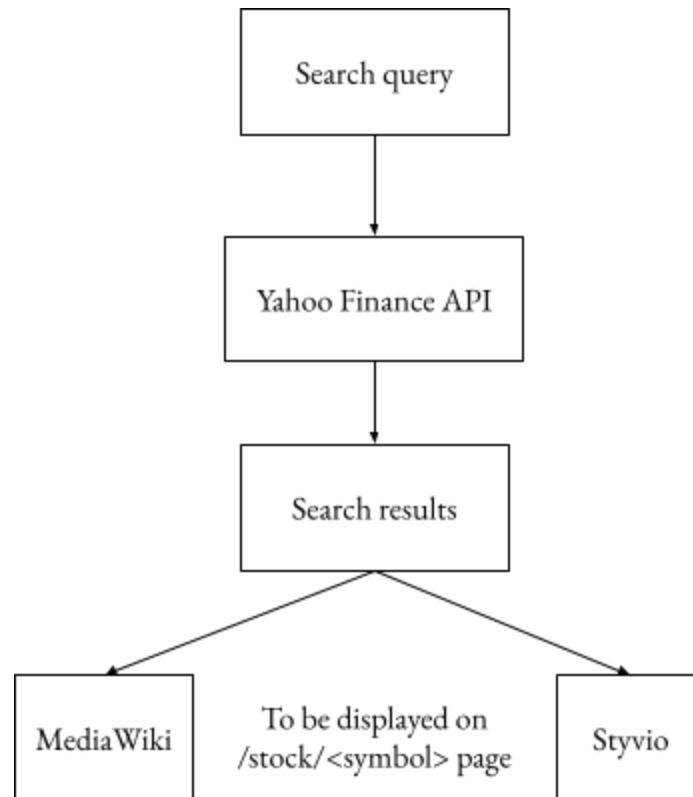
Favoriting

Users should be able to star/favorite certain stocks to appear in a “favorites” drop-down menu. Users can then click a stock they want to revisit, which will lead to the specified `/stock/<symbol>` page.

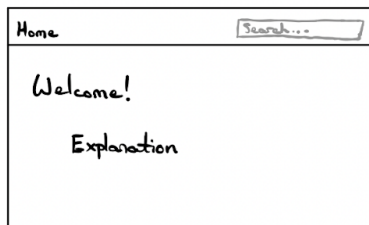
APIs

- 1) Styvio
- 2) MediaWiki
- 3) Yahoo Finance API

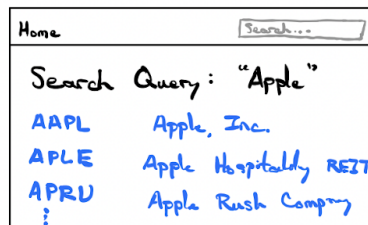
Relationship between Components



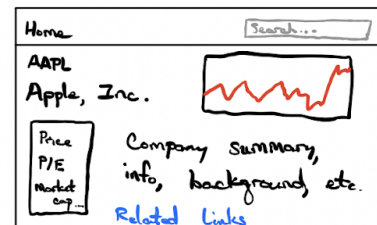
Site Map



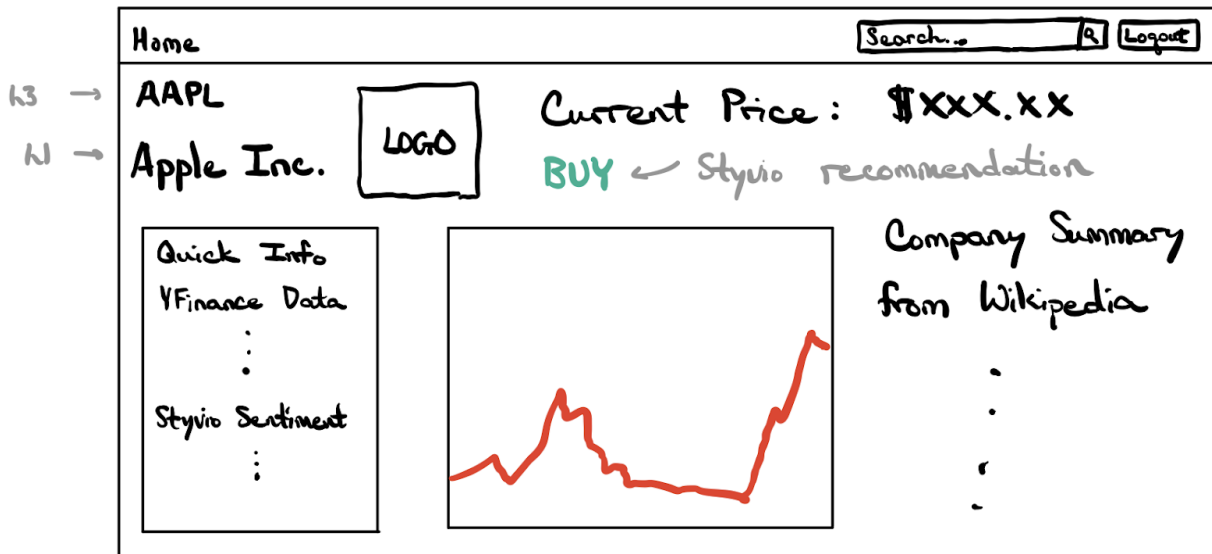
/index



/search?q=Apple



/stock/AAPL



- /index
- /search?q=<query>
- /stock/<symbol>

Tasks

Shyne

- PM responsibilities
- Ticker Symbol Lookup

Christopher

- Bootstrap/Front-end design
- Styvio and Yahoo Finance data
- Logins/Registration/Favorites

Ivan

- MediaWiki summaries
- Front-end design

Front-end Framework

We plan to use Bootstrap, as it's generally more smooth and the customization is more easily done. The stock information page that is returned after a successful search displays quite a lot of content, so Bootstrap's containers would be great for organizing all of it.

Target "Ship Date"

2022-01-03 08:00 EST

Database Organization

Username [text]	Password [text]	Favorites [json dump]
“user”	“pass”	[AAA, BBB]