

## Title/Description of Project

[no-stall-GICS stock re-collection](#) 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 for new users. 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) as well as a summary. 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. Background of the company (provided by the MediaWiki API for Wikipedia).
3. [If Time Permits] 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.

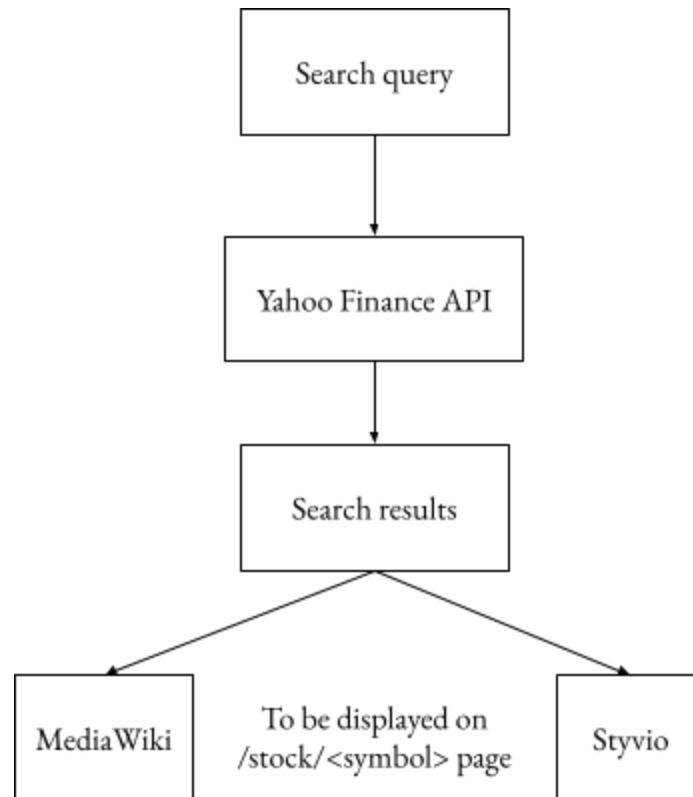
### *User Registration and Logins [If Time Permits]*

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.

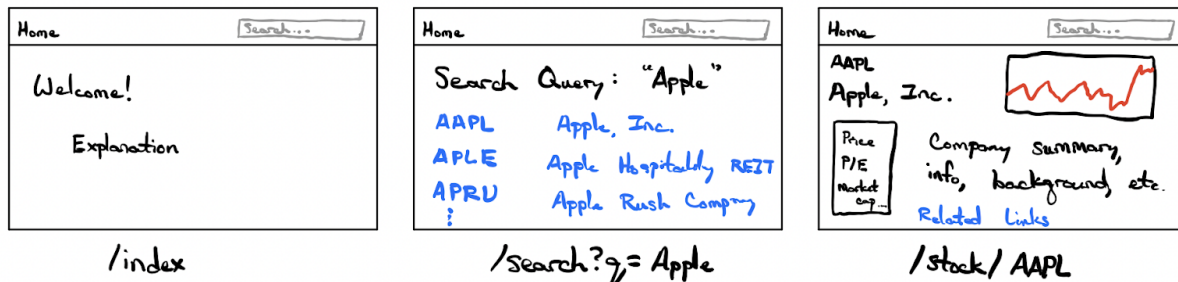
### *Favoriting [If Time Permits]*

Individual users should be able to star/favorite certain stocks to appear in a “favorites” drop-down menu. The home page could also be customized for individual users to contain key information about favorited stocks.

## Relationship between Components



## Site Map



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

## Tasks

*Shyne*

- PM responsibilities
- Ticker Symbol Lookup

*Christopher*

- Bootstrap/Front-end design
- Styvio data

*Ivan*

- MediaWiki summaries
- Front-end design

*Gavin (possible limited computer access)*

- Items marked [If Time Permits].

## APIs

- 1) [Styvio](#)
- 2) [MediaWiki](#)
- 3) [Yahoo Finance API](#)

## 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

## Other Notes

Accounts/Saved Info if time remaining afterwards

- Maybe recently searched/viewed stocks

## Database Organization [If Time Permits]

Username [text]	Password [text]	Favorites [blob]
"user"	"pass"	[AAA, BBB]

Ticker Symbol	MediaWiki	Styvio