

## Curated Portfolio Tracker

User inputs the list of stocks of interest and app provides detailed information and news related to stocks. The APIs will be used to gather information (financial data and relevant news articles) about said stocks the user inputs. The data and articles will then be displayed to the user.

### Possible APIs:

- Google News - <https://www.programmableweb.com/api/unofficial-google-news>
- Yahoo Finance - <https://www.programmableweb.com/api/unofficial-yahoo-finance>
- Twitter Search - <https://www.programmableweb.com/api/twitter-search-tweets>

## Primary User Stories

- Log In: As a user, I want to be able to safely log into the site so that my personal information will be protected. Stores user preferences including username, and password.

Description: When creating a new account, refer to the create a new account secondary user story. A successful log in would involve inputting the correct username or email and password combination will result in a successful log in. Underneath the username/email and password field are options titled "Forgot Password?" and "Forgot username/email?". The popup window will close and the user will be redirected to a logged in view. An unsuccessful log in would involve inputting the incorrect username or email and password combination will result in an unsuccessful log in. The popup window will remove the text in the username/email and password fields and red text will appear underneath the password field telling the user they have a limited number of retries. Underneath the username/email and password field are options titled "Forgot Password?" and "Forgot username/email?"

- Sentiment Analysis: As a user who is invested in stocks, I want to keep track of how the stock is perceived in the media by viewing tweets associated with the stock. Therefore, I would like to see tweets relating to the stock in addition to the stock information to see whether there is positive or negative sentiment towards the stock.

Description: After login, there should be a list of stocks of the user's interest. If s/he wants to browse the tweets related to a particular stock, s/he should click on the name of the stock, which will direct him/her to the front page of this stock. The front page of a stock will be the financial data, such as stock prices and stock charts. On the top left, there should be two bars: News and Tweets. Once the user clicks on the Tweets bar, tweets related to the stock will be displayed in time order. Users have to append the stock to their watchlist before seeing any related tweets.

- Custom News/Stock Prices: As a user, when I log in, I want to see all the related financial news in time order, so that I can get the newest information about the stocks of my interest.

Description: After login, there should be a list of stocks of the user's interest. If s/he wants to browse the news related to a particular stock, s/he should click on the name of the stock, which will direct him/her to the front page of this stock. The front page of a stock will be the financial data, such as stock prices and stock charts. On the top left, there should be two bars: News and Tweets. Once the user clicks on the News bar, articles related to the stock will be displayed in time order. Users have to append the stock to their watchlist before seeing any related news.

- Add/Remove: As a user, I want to add a new stock of my interest to the watchlist, as well as remove a stock I am no longer interested in.

Description: After login, there should be a list of stocks of the user's interest. If s/he wants to add a new stock, s/he can click the "+" button at the bottom of the watchlist. If s/he wants to remove a stock, s/he can click the little "remove" sign below the stock name. If the user enters a stock name that doesn't exist or misspell it, an error message "Wrong Input" will pop up in the middle of the screen. The user can close the error message box, and enter again the correct stock name.

- Like or Dislike: As a user, when I browse the financial news, I want to know how many people like this article, and how many dislike it, and I also want to click like or dislike, so that I can share my opinions with others.

Description: After logging in, the user will see multiple tabs across the top or side of the screen. One option will be a news option. Displayed will be a list of articles that have been curated to the user's portfolio. They will be displayed with the news source in bold followed by a short preview of the first couple of lines of text of the article. Articles will be displayed one after another vertically. To the left of the article preview will be the option to like or dislike an article. This will be shown via a thumbs up or thumbs down sign. If the user clicks dislike (thumbs down), the article will disappear from the total list of articles. If the user clicks like (thumbs up), there will be no change to the screen and the thumbs up will turn green. If a user clicks on an article itself, a new tab will open with the article.

## Secondary User Stories

- **Creating a New Account:** As a user, I want to be able to create an account so that my information can be safely stored.

Description: When a first time user utilizes the site, they will be prompted to create an account. The site cannot be utilized without an account. A pop-up window will ask you to input an email, username, password, and password confirmation. An account verification email will then be sent to the specified email account. Once the account is verified, the page will reload to a logged in view.

- **Competitor Stocks:** As a user, I want to be able to view information on stocks competing with my own. Therefore, when I click on one of the stocks I am monitoring, in addition to the information on the stock, I want to see information regarding the stocks within the same industry.

Description: After logging in, users can append any stock of their interest to their watchlist. If they want to view information on other stocks within the same industry, they can simply append these stocks to their watchlist.