

Project Requirements

Critical Features: Our critical features are Agile-centered. We are making a baseline fundamental version of the backend and branching out features from there.

- Webscraping- We will use web scraping python libraries to parse the website SeekingAlpha. From there we want to do sentiment analysis on articles and produce a score for an article.
- Username/Password- This will attach stock searches to individual accounts. Making the data more valuable and providing another angle to analyze. Along with a layer of security.
- Sentiment Analysis (SA) - We will use an SA library to calculate the scores for us. Giving us the actual numbers to assign each article.
- Design- Pleasant user facing design is needed to attract and retain users.
- Database- Will store data. Time organized data based on when searches are calculated, and user organized data based on who searches for what. Both provide sellable perspectives.
- Backend code- The features and web scraping that produce scores

Secondary Features: These are things we could build off of the database and backend data that is produced.

- Bot Security System- Bots could skew data, not allowing too many searches in a given time period could help
- Word Quality Library- Quality of articles could also add weight or remove weight to articles written, producing a more accurate score.
- Twitter/Other APIs- More angles for stock analysis could produce more data to sell.
- Doing analysis on user produced data- Produce charts and other analysis on the data that is produced.
- Hypothetically compiling and selling user produced data to companies-