

# Team 1 Project Charter

Team: Riley Robertson, Jake Koontz, Walter Jacquette, Kyle Brown, Jeremy Putnam, Eric Thiem

## PROBLEM STATEMENT

With the increase in technology, the ability for novice investors to get involved with the stock market has increased dramatically. This is great if everyone is well informed about the stock market but that is not the case. Most people have a limited knowledge about the different types of investments and what their risk tolerance is. This leads to a lot of young and old people putting their hard earned money into something they don't understand. That is why we set out to create a safe place to learn and practice the fundamentals of trading and investing. With our app the users will be allocated a set amount of fake money by the coordinator of the game that they will be able to invest or trade to try and make the most money at the end of the time period. This allows the user to try different strategies about investing without having to worry about their hard earned money. Our application will feature the ability to search for many different stock tickers such as Blue Chip stocks, Mutual Funds, and Penny Stocks. It would also give the user relevant data such as a graph with the investments track record and other useful data such as market cap and 52w high / low, and finally allow them to purchase as many of that stock as their budget allows.

## PROJECT OBJECTIVES

- Provide an interactive site for users to compete in who is the best stock market investor.
- Allow for the creation of unique accounts for each user.
- Let users search from many blue chip, penny stocks, mutual funds, and possibly bitcoin to show their current and past performance.
- Provide easy to use graphs for each ticker along with market cap data, dividend data, 52w high, etc...
- Allow a user to be able to create a trading lobby and invite friends to join.
- Provide a leaderboard with statistics on the progress of the current game.
- Allow users to buy their favorite stocks to compete in the game and keep track of their gains and losses.

## **STAKEHOLDERS**

- Users: Novice Investors, Experienced Investors, K-12 Students
- Developers: Riley Robertson, Jake Koontz, Walter Jacquette, Kyle Brown, Jeremy Putnam, Eric Thiem
- Coordinator: Adam Johnston
- Project Owners: Riley Robertson, Jake Koontz, Walter Jacquette, Kyle Brown, Jeremy Putnam, Eric Thiem

## **DELIVERABLES**

- A ReactJS-based frontend web application for user to compete in a stock trading and investing game.
- A NodeJS backend with a connection to a MongoDB database to store our user data and score information
- Github Pages will be used to host the front end of the site and Bluemix will be used to host the backend of our web application