

Team-Peerless Project Proposal

Stock Market Simulation

The stock market is an incredibly powerful resource that is also difficult to understand. It can provide many benefits and rewards for the investor if they have a understanding of how the market works. Unfortunately, the stock market is very complex and few people have the patience to study the stock market. Team-Peerless has decided to create a stock simulation program that will help individuals learn how to invest their money, understand the stock market, and gain confidence to make their first investment.

The application will use virtual currency (so that the user assumes no real risk) while incorporating real world stock data so that the user can have the most accurate and real experience with the stock market. We hope that this type of approach will allow for the most efficient internalization of stock market knowledge while instilling safe and proper investment habits, such as researching stocks and assessing risk.

The current market for this application will be educational institutions. This will include high schools and universities, both public and private. Many schools are already providing financial literacy classes, such as accounting and economics, so we feel that this type of educational tool would appeal to many students, universities, and self-learners. It is essential for the upcoming generations to understand finance, especially when it comes to investing for certain things like retirement or savings.

The application will be web based, making it accessible and easy to use for anyone with a computer or mobile device. It will have to types of account subscription options: free and premium. Free

accounts will include advertisements to generate revenue, while premium account members will pay for their subscriptions (month by month, or a full year at discount). We also plan on providing discounts to educational institutions by providing fixed term contracts.

We have looked into several APIs that will be able to help us accomplish our goal. Some of these APIs include:

- <http://dev.markitondemand.com/MODApis/#doc>
- <https://blog.quandl.com/api-for-stock-data>
- <http://www.xignite.com/product/global-real-time-stock-quote-data/api/>
- <https://github.com/kirkthaker/investopedia-trading-api/blob/master/README.md>

The first 3 APIs provide access to stock information while the fourth will give us a starting point on creating and managing accounts and executing basic action, such as placing trade orders.

Team-Peerless is seeking approval for this project from Professor Tim Smith. We believe that end result of this project will provide many educational benefits for users, and our team. Through this final project we are confident that this will help us hone in on the skills and knowledge we have learned throughout this course, and give experience in real-world application.