Release Plan—BLASH

Stock Market Analysis Companion

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1 Project and team information

- Product owner: Sean Sjahrial

- Team name: Stock Market Analysis Companion

- Team members: Sean Sjahrial, Johnnie Chang, Kenny Wong, Derrick Do

2 Description

Blash ("Buy Low And Sell High") is a web app for beginning stock market investors that delivers information on stocks and makes predictions on the market.
We feature:

- data visualization of S&P 500 companies

- projections for performance of a given stock

- a calculator to show how much money one will make with a given rate of return

3 User stories

- Sprint 1

  - As an investor, I want to have a visual overview of the stock prices over a given timeframe, because I would like to use past behavior to predict future returns. (8 points)

  - As a stock portfolio manager, I want to input the stocks in my portfolio and see projections for it, so that I can make informed buying and selling decisions. (5 points)

  - As a beginning investor, I would like to see what my potential capital gain is given a principal value (how much I make with some amount), in order to conveniently see how much money I could make. (2 points)

- Sprint 2

  - As a beginning user of the app, I want to learn to use this app, since this app will help me manage smart investments. (3 points)

- As an investor, I would like to view my different options based on "risk" so that I can invest based on how much I am willing to lose. (3 points)

- As an on-the-go investor, I want to get quick textual reports about the stock market to provide information for my investing decisions. (5 points)

- Sprint 3

  - As a beginning investor, I would like to learn the basics of investing and receive recommendations on what to buy, so I can easily start investing. (2 points)

  - As an on-the-go investor, I want improved textual reports about the stock market, in order to gain a quick and broad understanding of the state of the market. (8 points)

4   Tools and architecture

- Web2Py — Web application tool

- Yahoo Finance — Stock market source

- NLTK — Natural language processing

- SciKit Learn — Machine learning

- Python — Analysis code