

Description

Stock analysis and Recommendations

Problem Statement

On an average nearly 150,000,000 shares are traded everyday in the US. One requires a less cluttered application where he can find all information required to decide on whether he should buy a stock. There are plenty of applications available. This project aims at bringing a social aspect into this where one can see in his feed when a friend starts following a particular stock.

The following are the possible functionalities I was thinking on providing.

- A person can follow a stock. This would give relevant news article of the stock, current trading price and recommendation to whether buy or sell stock in his feed. He can also add and remove stuff in his Buy list or sell list
- A person can add friends, in which case when his friends follow a stock it would show up on his feed. He can comment, or give views on the stock

Domain Objects

- i) Stock details: This contains list of stocks for a particular user and information such as whether he is just following or has it in his buy list
- ii) Friends: This would have information about the friend and also hold permission as to whether the user can see all activity and buy list
- iii) User Activity: Contains user activities and dates.

Human Users

- i) The end user: The person who wishes to research on stock. He can search and follow stocks.
- ii) Stock Advisor: Every user can have an advisor. He can monitor users activity see his buy list and edit them.
- iii) Admin: He can search for user delete user, delete user comments etc.

Goals user can accomplish

- i) Follow stock: Would give stock news in his feed
- ii) Follow friend
- iii) Maintain buy and sell list

Goals admin can accomplish

- i) Add/Remove User
- ii) Monitor User activity/data
- iii) Delete comments, block user

Goals Stock advisor can accomplish

- i) Modify user buy, sell list
- ii) Give recommendation to user on an activity

Relations with other user

- i) User
 - a. User to friends
 - b. User to stock advisor
- ii) Stock Advisor
 - a. Stock Advisor to User

Relation to Domain Object

- i) User to Stocks
- ii) User to User Activity

Relation between Domain Objects

- i) Stock Advisor to User Activity:
- ii) Stock Advisor to Stocks

APIs

- i) To get current stock price, volume of stock change percent since the previous day's close

<https://www.programmableweb.com/api/stock-quote>

- ii) Stock analysis data

<https://www.programmableweb.com/api/xigniteanalysts>

This includes number of analysts that rate each stock as a Strong Sell, Sell, Hold, Buy, and Strong Buy, as well as the consensus mean recommendation.

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