Team Number: 024-5
Members: Avery Arjang, Xiang Chen, John Chabin,Thomas Kokes
Group Number:
Team Name: Team Stonkz
Application Name: Stonkz

Application Description:

Our application 'Stonks' is primarily a simulated trading platform where users can buy and sell public companies with functional currency. Its function is to take live data from a platform and have a GUI that shows profits, losses, in both graph and numerical form along with other stock views similar to an online brokerage.

The value this application has is for users to test out stock market ideas in a risk free environment. It will have uses for people who want to learn how to trade stocks without any risk of losing money, and for people who are looking to write bots to automate and create algorithms for trading. Our app will have an advantage in its API that can be called through code, letting users automate the process easily.

Vision Statement:

For aspiring investors, Stonkz is a simulated trading environment that cultivates bold ideas without the risk. We provide an essential, trustworthy service in a uniquely minimalist environment.

Version Control:
https://github.com/CSCI-3308-CU-Boulder/3308SP21_024_5

You will also create a ReadMe.md file in your project GitHub repo at the root location. The ReadMe.md should include the project description and an overview of the application architecture.

Development Method: Describe the software development methodology will your team follow. Describe the methodology and the features/steps you will follow. Common methodologies include waterfall, agile/scrum, iterative. You may choose to follow your

own hybrid version of these methodologies as best suits your team. We recommend that you use a hybrid of agile methodologies for your project.

We will use a hybrid agile (iterative) approach for the project. A backlog of tasks that need to be completed will be made. Our team will use our weekly outside of class meetings to plan our sprints. We have not fully decided on the length of the sprints yet however, we expect them to be weekly. A kanban board will also be used to help people pick up tasks that still need to be completed.

https://csci-3308-spring21-024-5.atlassian.net/

Communication Plan:

Our informal communication plan is to use discord. We have created a group, in which we frequently speak, where we can reach out to each other instantly to send a message and do voice calls. Our formal meetings are set up to be in a zoom call which is usually with our TA or we will post and pin invite links in the discord chat. We each have each other's phone number and will also use text and other methods as a backup, if someone can't be contacted by other methods.

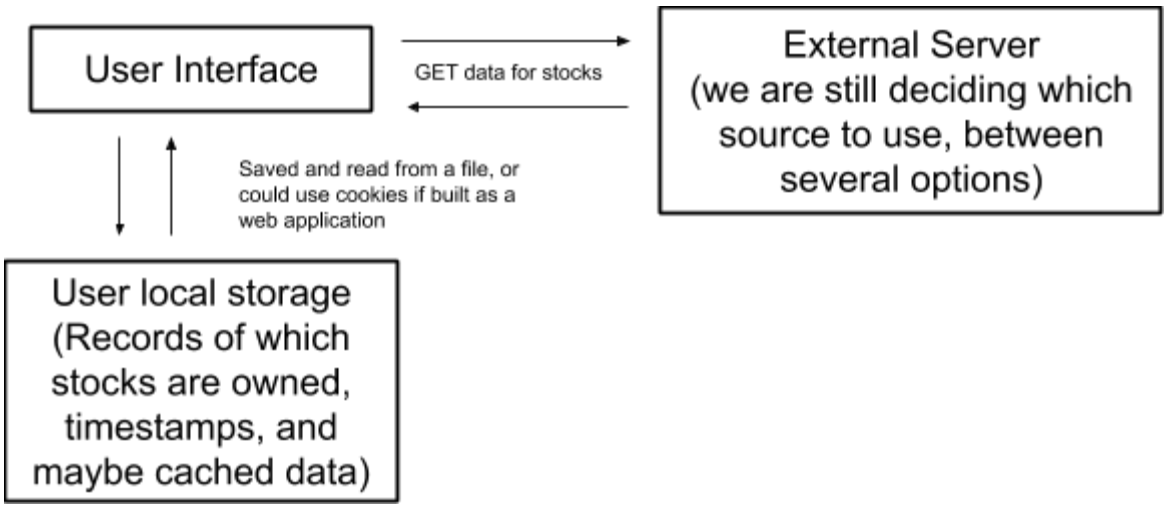
Meeting Plan:

We meet our TA, Cory Piak, at 5:15 at:
https://www.google.com/url?q=https://cuboulder.zoom.us/j/95439367189&sa=D&source=calendar&ust=1612997189789000&usg=AOvVaw2hpVvLfgCU55NDK76tW6X8

Our group meets Tuesday evenings at 5:00 MST on Zoom, and informally we are all generally more free on Thursdays.

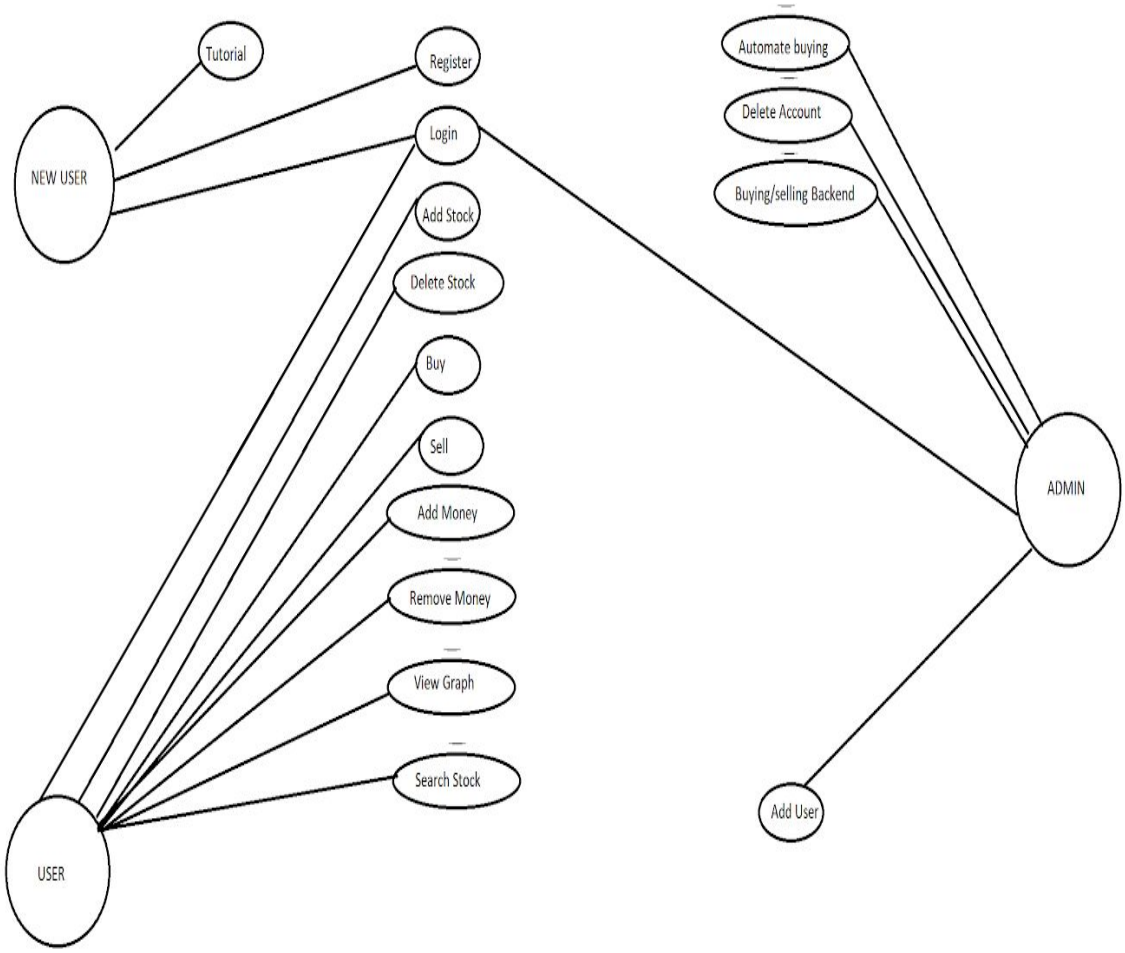
Proposed Architecture Plan:

Our app does not require an especially complicated backend. We will receive our stock data from an external API, and all formatting and calculations on this data can be done clientside.



Use Case Diagram: Identify a minimum of **3 actors and 15 use cases** for your project. Create and attach a use case diagram to depict them. You may change these at a later point in time as suited.

Diagram Below


Tutorial
Register
NEW USER
Login
Add Stock
Delete Stock
Buy
Sell
Add Money
Remove Money
View Graph
Search Stock
USER
Automate buying
Delete Account
Buying/selling Backend
ADMIN
Add User