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

Application Description:
A short (2-3 paragraphs) overview description of the application. Provide enough information to explain what functionality and value your product will provide to users of your application.

Our application 'Stonks' is primarily a dry trading platform where users can simulate buying and selling public companies (and cryptos?) with imagined 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: *A simple, one or two sentence statement describing the clear and inspirational desired state resulting from your team's efforts to create your application. A template you might want to use:*

For young investors Stonkz is a dry trading application that cultivates bold ideas without the risk. We provide an essential 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 approach for the project. A backlog of things that need to be done will be made. We will use the weekly outside of class meetings to plan sprints. We have not fully decided on the length of the sprints yet though. A kanban board may also be used to help people pick up tasks that still need to be completed.

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

Communication Plan:
Describe in a **paragraph or two** how your team plans to communicate with each other during the course of the project. You must identify a collaboration tool for team members to utilize for coordination of their work and communication among team members. Such tools are Slack, Discord, HipChat, Google Groups, etc.

-- Our informal communication plan is using discord, we have a group set up where we can reach out to each other instantly to send a message and do voice calls if needed. Formal meetings are done in a zoom call. We will also use text and other methods as a backup, if someone can't be contacted by other methods.

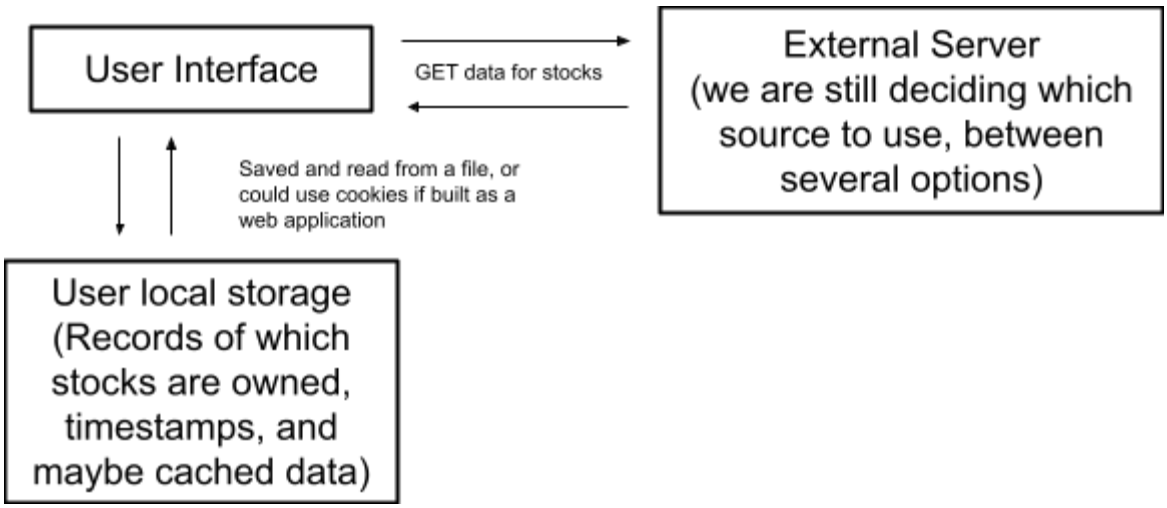
Meeting Plan:

We meet our TA, Cory, 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.

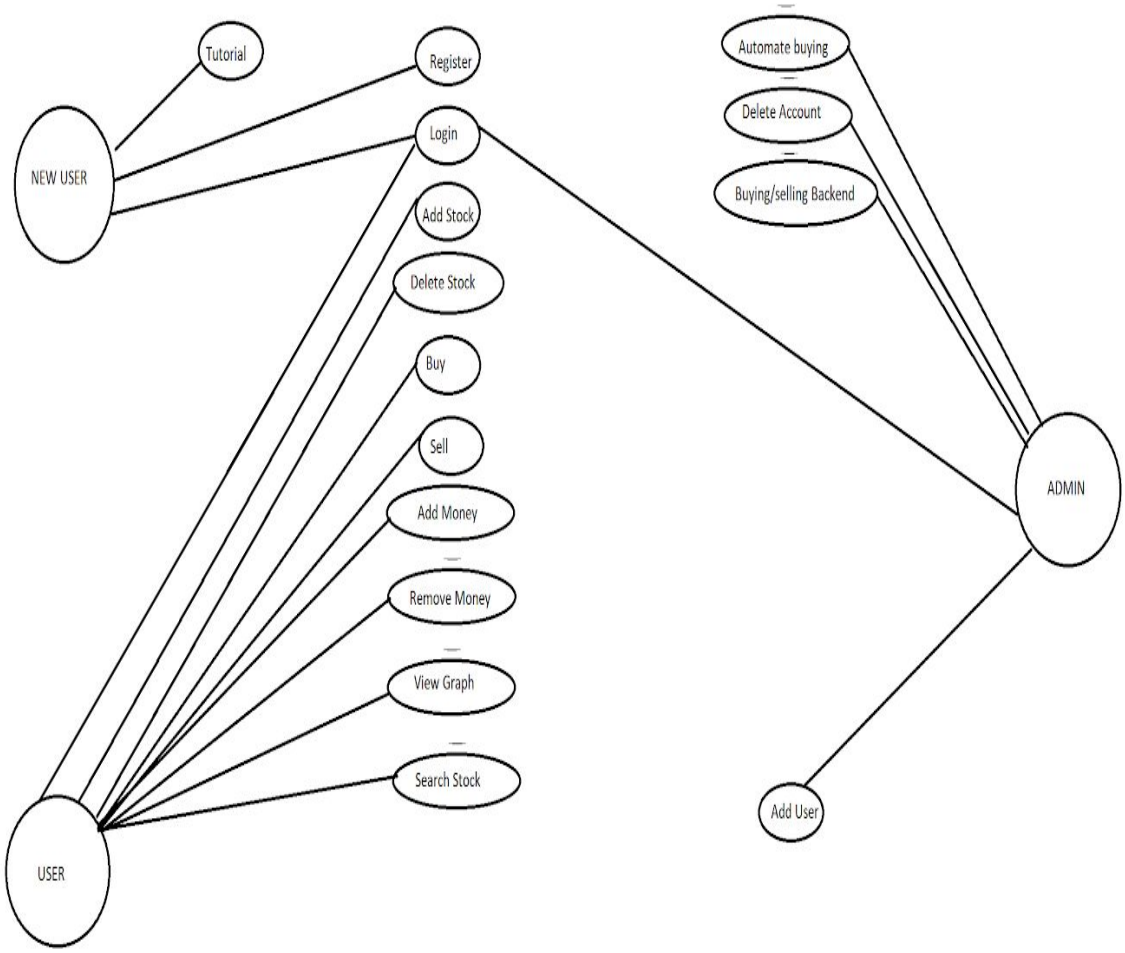
Proposed Architecture Plan:
Propose an architecture for your app. What technologies will you be using on the backend? What technologies on the front end? How will they communicate with each other? Which technologies will be responsible for which functionalities?

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
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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