



FinClique

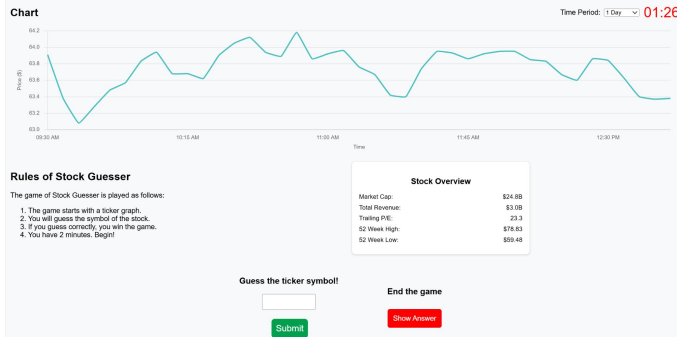
Group 210

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Live Site: <https://spring25-project-group-210.onrender.com/>

Repo: <https://github.com/neu-cs4530/spring25-project-group-210>



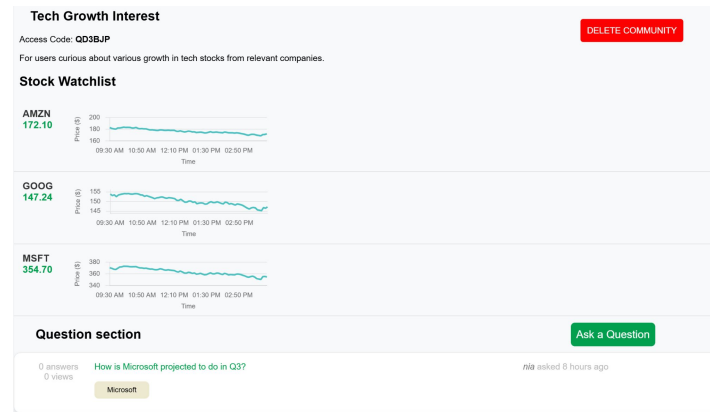
Project Overview

While Stack Overflow has revolutionized knowledge sharing and aggregation in software engineering, we seek to modify the provided framework to cater to the needs of retail investors. We believe this is a group underserved by existing platforms, as the markets require real-time interaction, personalized guidance, and community-driven insights beyond the standard Q&A format. Current platforms either lack integration with personal investment data (Reddit) or fail to provide a solid learning environment for novice investors (Robinhood, E*TRADE). Additionally, the static nature of a traditional forum post does not accommodate for the dynamic nature of the market.

We aim to fill these gaps by providing a platform that combines personal portfolio tracking with community engagement. Our features include real-time portfolio information integrated with community discussion, a stock-guessing game to help novice investors learn market patterns, and enhanced posting capabilities for deeper discussion of the market. These features are designed to create an educational, dynamic, personalized platform that connects user discussion with actual trading activities.

Tech Stack

We implemented a game, community features (including private communities), and several quality-of-life improvements such as question/answer editing, threaded answers, and image upload support. Various schemas were designed in MongoDB to store important objects. To support live stock updates, we integrated the yfinance2 API. Since yfinance2 only supports Node.js, we built proxy endpoints in our backend that call yfinance2 and send the relevant data to our React frontend. For image storage and deletion, we used AWS S3 buckets for its seamless integration with Render, our deployment platform. Images are uploaded via the frontend and stored securely in S3, and deletions are handled via API calls that update both the frontend and backend state.



Future Work

There are certainly areas of future extension that would tailor each user's experience to be more unique to their interests, such as suggesting communities and various stocks based on how each user's watchlist, communities, and portfolio. Additionally, once a certain stock a user follows in their watchlist or portfolio reaches certain thresholds, the user could configure notifications for specific prices. Each user may then be able to ask questions to their followers only, allowing for private questions that may include more personal information. To encourage more interaction amongst various users on the platform, a leaderboard displaying the fastest times for various tickers to be guessed could be displayed, as well as offering hints to provide more context about the ticker for each user.

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