Virtual Stock Market Game

Requirements

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Major functional requirements:

- 1. Personal user accounts
- 2. Fantasy money system
- 3. Show a graph of historical stock prices
- 4. Show trend lines for stocks future forecast
- 5. Show a graph of users' account value over time
- 6. Users start with a fixed amount of seed money
- 7. Tracks actual stock prices
- 8. Users can buy and sell as many virtual stocks as they can afford
- 9. Advertisers pay fees to display ads
- 10. Ads when players go to new page
- 11. 10% of advertisement revenue goes to best player of month
- 12. Stock buying recommendation (social-based, e.g.: 4 of your friends bought this stock)
- 13. Teams (create a team for your company, class, or group of friends)
- 14. Leaderboards: Global, friends, teams
- 15. Money markets: if you take your money out of stocks, it gains a small amount of interest
- 16. Ability to change your name's display color on your profile & leaderboards

Major non-functional requirements:

- 1. Stock prices are within 30 minutes of real-time.
- 2. If there is an issue getting stock information (stock market or stock price feed down), the site should continue to function
- 3. Modular design which permits easily implementing new modules
- 4. Clean, readable, easy-to-use interface

Supplementary non-functional requirements:

- 1. User passwords are stored in a secure manner
- 2. Website maintains adequate uptime (>90% of the time)