

stockGenie Functional Requirements

1. Real-time Data Integration

- a. The app should integrate real-time stock market data and financial information to provide users with the most current insights and analysis. This includes live stock prices, market trends, and news updates, ensuring that investors have access to timely information for making informed decisions.

2. Account Creation and Management:

- a. Users must be able to create accounts with unique email addresses and passwords.
- b. Users must have the ability to delete their accounts while logged in.

3. Stock Wishlist Management:

- a. Users should be able to add stocks to their Personal Stocks Boards from the available listings on StockGenie.
- b. Users must be able to remove stocks from their Personal Stocks Boards.
- c. The system should allow users to view a combined graph of their wishlist stocks, reflecting the aggregate performance over time.

4. Stock Predictions:

- a. Users should be able to make instant predictions for any stock, with forecasts showing potential price changes for user-specified future times.
- b. The platform should offer graphical representations of predictions over user-defined intervals, aiding in trend analysis and decision-making.

5. Stock Search:

- a. Users must be able to search for stocks using keywords related to the company's name or other relevant identifiers.
- b. Users can apply filters such as market types to refine their stock searches, facilitating targeted analysis.

6. User Interest-Based Stock Recommendations:

- a. Implement an intelligent recommendation system within the app that analyzes stocks a user has searched for or added to their wishlist and provides recommendations on similar stocks. This system should consider factors such as industry, performance, and market trends to suggest stocks that align with the user's interests and investment patterns, enhancing discovery and potentially diversifying their investment portfolio.

7. Finance News and Information:

- a. The application should provide users with access to up-to-date financial news and information, enhancing their research and decision-making capabilities.

8. Administrative Oversight and Account Management:

- a. Managers with administrative privileges must oversee and manage both investor and analyst accounts, including the ability to update stock prediction models and manage access to advanced tools.

9. Security and Privacy:

- a. The platform must implement security measures to protect user data and privacy, including the ability to update their account passwords through the account settings or via password recovery methods.

10. Communication and Feedback Channels

- a. The system should streamline communication channels for feedback and updates between users, analysts, and the administrative team.
- b. The app must integrate with email and potentially SMS gateways for real-time notifications about stock predictions, market news, and account