

# **Crypto/Stock Market Advisor**

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Many people have begun to put their money in cryptocurrencies and equities on the stock market in recent years. The majority of those who are entering into it are young individuals who have no knowledge of the stock market and are just looking to profit from their investments. We feel that an app like this may act as a set of training wheels for these newbies. Into the investment field and provide investment advice to others. The goal is to create an app or website that provides consumers with investment tips.

The suggestions will be generated by the app or website obtaining live data from an existing API such as polygon.io or Alpha Vantage. Stock market data such as current trades, quotations and averages, and news for individual companies are all available through the APIs. The application will then have an algorithm that analyzes the history of certain stocks that have seen recent price drops and rises, as well as searches for keywords in news articles to make a prediction on the stock's behavior, and then determine what stocks to recommend to the user based on their preferences, such as long term investments or short term investments, as well as the industries that the companies are in, and display them on the user's main screen.

### **Scenario**

When the user opens the application, it shows the user with two options either to log in or register. If he is an existing user, he can simply enter his login and password and the application will authenticate him using the database to login him to the system. If he is a new user, he will need to create an account by selecting a username and password and registering.

Next, the first-time user will be asked for his account preferences such as if they would like to prefer a long-term or day trade investment, and industries their investment recommendations should be focused on. After this, they will be directed to the home page. On the other hand, the existing user will straight away be directed to the home page. The preferences can also be later altered by pressing ‘account management/preferences’ on the home page.

The home page will consist of a button to enter a forum and to edit your preferences and will display the recommendations. Recommendations will be generated according to the algorithm class in the system that takes in crypto/stock market data including current prices, previous prices, high and low prices of the day, news articles, and user preferences.

If the user wants to enter a forum, he can press the forums page button, select a specific forum he wants to enter, and even reply to the existing forum.

