

Project scope -- the goals, features

- **Product overview** -- A stock market application to help beginner traders get their feet wet in the stock market with no risk of losing any money.
- Use cases -- The admins are the developers of the application. They have the ability to make changes to the application layout and features. The other users would be using this app to its intended purpose as explained in the product overview, such as investing virtual money in stocks and editing their profile.
- **Requirements** -- Available online, ability to buy/trade stocks with virtual money, user-friendly interface that makes viewing and trading stocks easy, user profiles for keeping track of and viewing user data, ability to import and update stock data from the stock market.
- **Configuration** -- The user needs to sign up for an account to start using the application. Once the user has an account they are able to use the other features in the application.
- **Features:**
 - VIEWING STOCKS - Window or div list of common stocks as well as stocks that are searched for.

Functional Requirements:

- Ability to view a certain searched stocks price.
- Ability to view a list of common stocks.

Non-Functional Requirements:

- The application is connected to a database of stocks with their information such as prices.
 - The front-end(IOS App, Webpage) makes a request to a java servlet to get the requested information about the stock.
 - The java servlet makes a request to the database of stock information.
- IOS APP-IOS app to access your account and use the other features.

Functional Requirements:

- Ability to download the application on iPhone
- Ability to utilize all features of the webpage through the iPhone interface in the application

Non-Functional Requirements:

- The application is developed using Swift
- LOGIN/SIGNUP - Login and signup feature to allow users to make accounts and login to them.

Functional Requirements:

- Ability to create a username and password for logging into the application

Non-Functional Requirements:

- Created using HTML, CSS, Java servlet, and MySql.

- The java servlet will create a new user in the MySql database table of users.
- PROFILE PAGE - Section where you can view your profile.

Functional Requirements:

- Ability to upload user information
 - Profile picture
 - Email
 - Summary or Bio
- Ability to see stocks the user is currently invested in

Non-Functional Requirements:

- Stocks imported from stock-trading IDE BackTrader

- STOCK SEARCH BAR-Search bar where you can search for a stock based on the stock symbol.

Functional Requirements:

- Ability to search for certain stocks based on their symbols to view the stocks information.

Non-Functional Requirements:

- Created using HTML, CSS, and Java Servlet.
- When the user clicks the search button the webpage will make a request to the java servlet to search the database of stocks for the information that is correlated to that stock symbol.

- WEBSITE-A webpage to access your account and to use the features above.

Functional Requirements:

- Accessible through web browser
- Ability to view stocks and their current values
- Ability to search stocks
- Ability to switch between tabs - Profile, Home (where stocks are displayed)

Non-Functional Requirements:

- Stocks imported from stock-trading IDE BackTrader
 - Real-time or near-real-time stock value and information updates from the stock market.
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- **Error reporting** -- Pop-up window for indicating errors, error log that informs us of front-end and back-end issues when they occur.