**The Fellowship of the Elden Ring**
Gianna Galard - Business expert
Alleny Rosario - Requirement Interviewer
Jason Chan, Daniel Targonski - Facilitator or Project manager

Part A:

**Interview Transcript:**
→ Daniel: Hello Gianna, thank you for coming today! My name is Daniel Targonski, and I am a project manager here at Swift-Trades LLC. This is an exciting time for us as things are moving quickly, and we are glad you could join us to get this project started.
→ Gianna: Thank you, Daniel, for inviting me. I look forward to beginning work on this project.
→ D: Please tell us a little more about yourself.
→ G: I am a software engineer at a major bank that provides financial services to customers in virtually every realm of financial deal-making. This includes Consumer Wealth Management, Global Markets, Corporate Treasury, Engineering, and Investment Banking, to name a few. I have worked in many areas within my bank and therefore decided to begin consulting to take advantage of my vast array of knowledge in this field. I believe I can help your startup develop the necessary groundwork to enter the financial area as a fierce competitor. What is it that you are looking to make?
→ D: We want to develop the base for our securities trading app. How do you suggest we start?
→ G: For this, start with offering stocks and bonds to trade with perhaps options. The front page should have a decent amount of information readily visible to the user. It would help if you had a settings area to change basic things and necessities such as standard user profile things like email, making bank transfers, getting statements, and seeing trade history.
→ D: What tech stack do you recommend we use for this?
→ G: I believe the MERNG stack can be used to accomplish these goals. This will provide you with a front-end to display all the information efficiently and quickly and a backend to efficiently retrieve user, market, and other data when needed.
→ D: This sounds fantastic. I believe we have enough basic information to get started. We want to continue working with you as we progress.
→ G: Excellent! I'd be happy to continue working with you on this project.

## User Requirements:
**Functional:**
- Settings page
    - Users can change personal information such as their email address, phone number, address, and security and privacy settings.
    - Users can connect a bank account, make transfers, and see transfer/buying/selling history.
- Home page
    - Links to create an account
    - Links to settings and transfers page
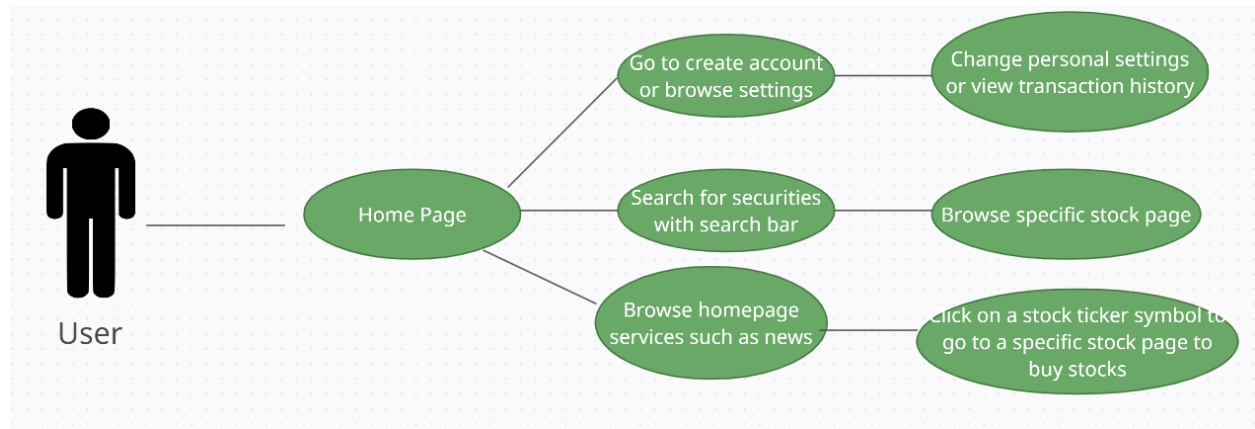    - Account balance chart/information

- Search bar to search for securities.
- News
- Specific Security Page
- Price history
- Price graph
- Key statistics
- About information
- Specific news
- Header and footer for navigation to aforementioned settings/transfer pages and future features and basic company information in the footer.
- Users may click on stocks mentioned on the homepage to go to a stock page.
- Non-Functional:
    - Apply MERN Stack appropriately
    - MaterialUI for styling
    - Users must be able to request services from the website.
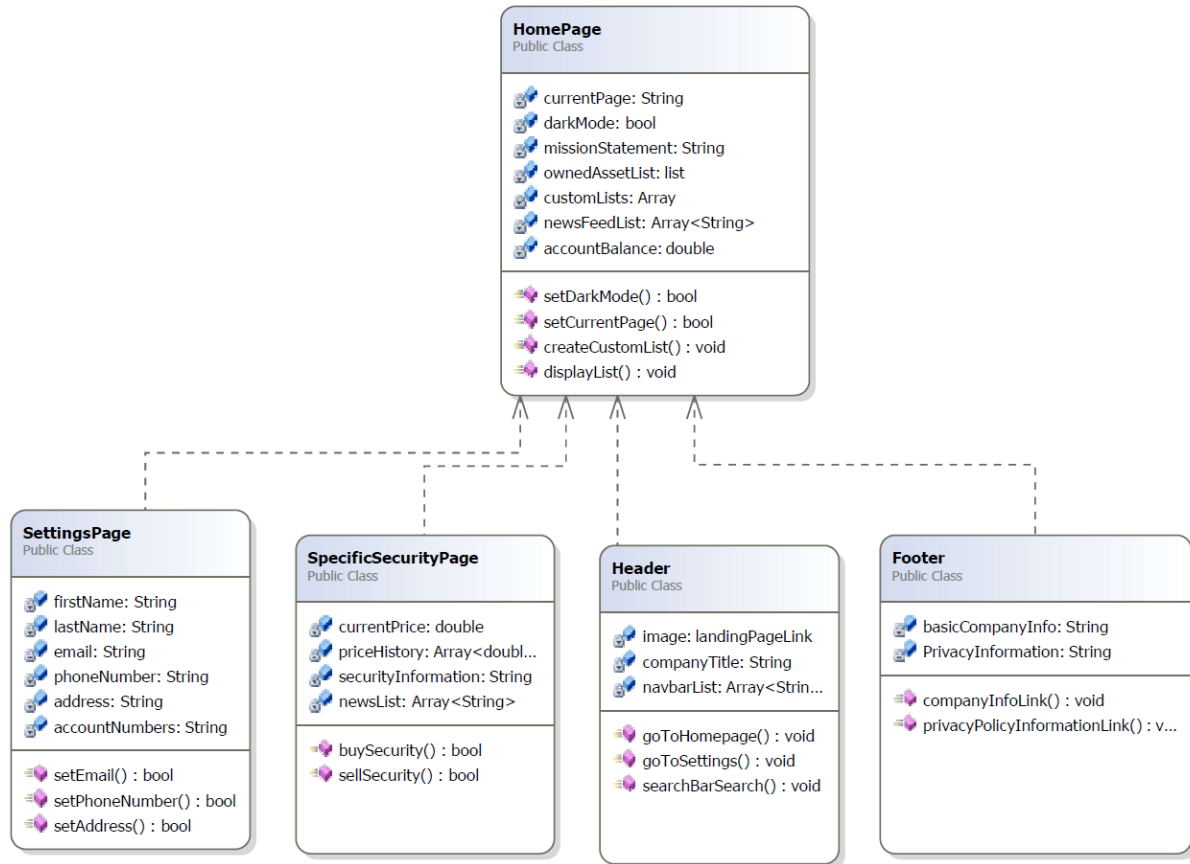
System Requirements:
- Settings Page
    - Easy to use with friendly UI and crisp GUI. It should have good typography and accessibility. A balance of contrasting colors can lean towards a dark background with appropriate colors to match it.
- Home Page
    - It should be similar to the settings page. The user can make a list of stocks displayed with basic quick-access information. There should also be an owned stocks list created by the system depending on what stocks the user owns.
- Specific Security Page
    - It is also adhering to the overall dark background theme. It should have a clean layout with things well separated to distinguish them. Can use colors or bolded font, or different types of font to signify certain things and text-decoration.
- Header/Footer
    - A navigation bar in the header is positioned towards the right-hand side of the screen. There should be a search bar in the center of the screen positioned in-line with the settings page button.
    - The footer should have a link towards Disclosures and Privacy Policy information.
- Interactive Features
    - The users should be able to click on stocks that pop up on the homepage to take them to the specific stock page. Buttons that bring users to places without looking too profoundly through trees of information.
    - Apply MERN Stack Appropriately
    - MongoDB for backend, Express.js for the web backend framework, react.js for the front-end and node.js as the coding language.
- MaterialUI for styling
    - This is a CSS framework and is a dependency for React.js. It can make custom themes, components, and various custom website designs, altering accessibility and typography.

- Users must be able to request services from the website
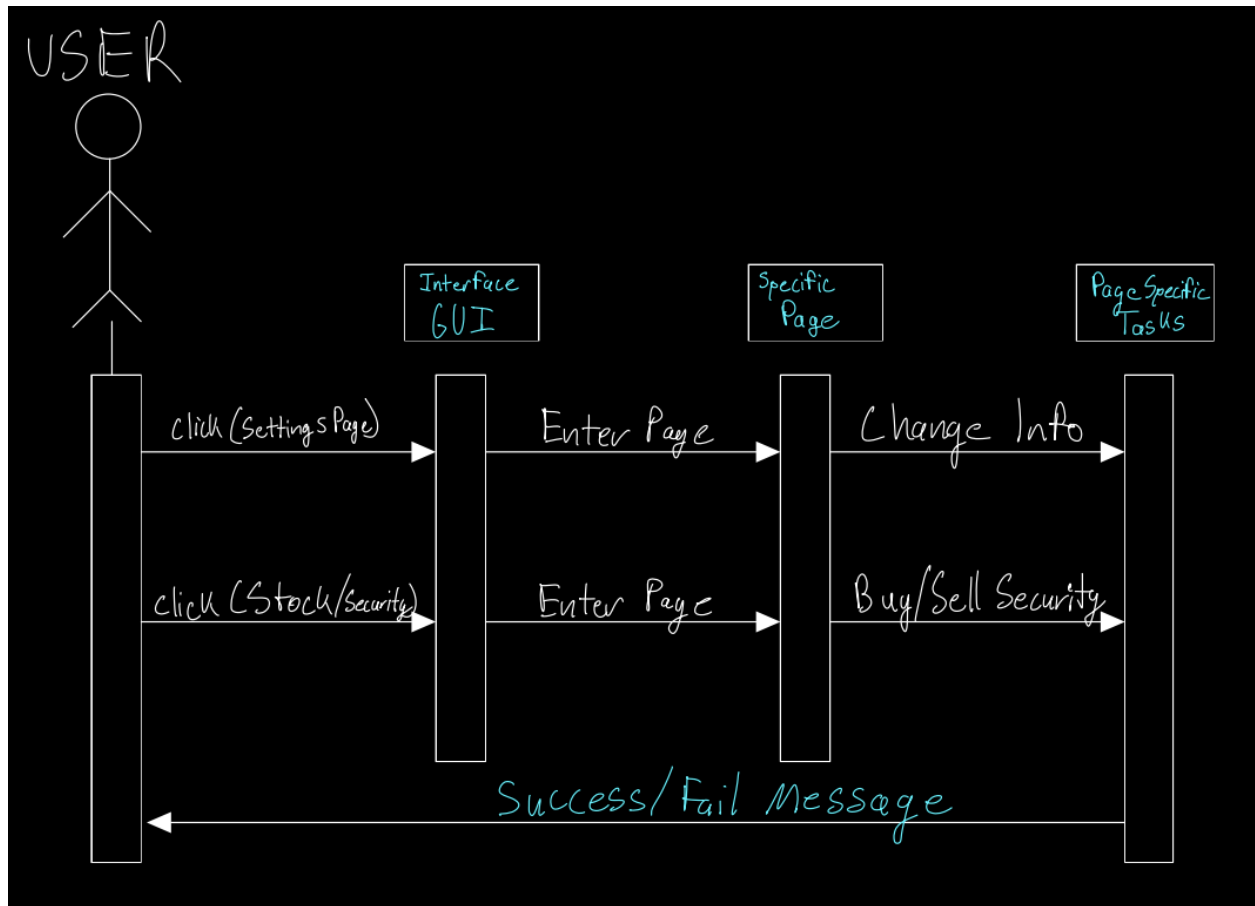- The aforementioned areas such as homepage, specific stock page, and settings must be accessible to users.

# Use Case Diagram:



# Class Diagram:

**HomePage**
Public Class

- currentPage: String
- darkMode: bool
- missionStatement: String
- ownedAssetList: list
- customLists: Array
- newsFeedList: Array<String>
- accountBalance: double

- setDarkMode() : bool
- setCurrentPage() : bool
- createCustomList() : void
- displayList() : void

**SettingsPage**
Public Class

- firstName: String
- lastName: String
- email: String
- phoneNumber: String
- address: String
- accountNumbers: String

- setEmail() : bool
- setPhoneNumber() : bool
- setAddress() : bool

**SpecificSecurityPage**
Public Class

- currentPrice: double
- priceHistory: Array<doubl...
- securityInformation: String
- newsList: Array<String>

- buySecurity() : bool
- sellSecurity() : bool

**Header**
Public Class

- image: landingPageLink
- companyTitle: String
- navbarList: Array<Strin...

- goToHomepage() : void
- goToSettings() : void
- searchBarSearch() : void

**Footer**
Public Class

- basicCompanyInfo: String
- PrivacyInformation: String

- companyInfoLink() : void
- privacyPolicyInformationLink() : v...

# Sequence Diagram

**<u>GUI</u>**

# $0.00

**$0.00 (0.00%)** Today

1D  1W  1M  3M  1Y  ALL

**Buying Power**                                              **$0.00**

## News

**Reuters**  5h

### Exclusive-Russians liquidating crypto in the UAE to seek safe havens

DUBAI (Reuters) - Crypto firms in the United Arab Emirates (UAE) are being deluged with requests to liquidate billions of dollars of virtual currency as Rus...

**COIN**  6.98%

**CNBC**  44m

Disney pauses political donations in Florida, CEO Chapek apologizes for

**Lists**

🔲  Options Watchlist

🎧  Balance

👾  Cryptos to Watch

💻  Tech

💡  SemiConductor

⚡  ARK

🚀  memeStonks

⚡  My First List

**Following**

🟢  IPO Access