

# PROTOTYPE REQUIREMENTS

## P04:TRADEUP

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# 1. Introduction

The project is a **stock trading simulation platform** that enables hands-on learning for people who want to gain trading experience without the risk of losing money. The platform is intended to provide experiential learning value to users, to supplement their stock trading learning journeys.

Our platform's objectives are to provide a safe and risk-free trading environment that pulls real-time stock market data to simulate the real thing – meaning our environment will capture and simulate the market's movement as it moves in real-time. Furthermore, we aim to provide valuable learning experiences to users with our platform that engage and empower them to improve their stock trading abilities and confidence.

## Proposed Feature Set

- Buying/Selling Stocks
- Gamified Leaderboard and Topic-Specific Channels
- AI Insights and Chatbot
- AI News Sentiment Analysis
- Candlestick Charts View
- MarketWatch: to track favorited stocks
- Educational content
- Personalised Notification Systems

# 2. Instructions

- The prototype will be developed in two phases. Select a subset of system requirements and implement them. The result of each phase of prototype development must be a working system with the selected set of requirements implemented completely. **Mere mock-up screens will NOT be accepted.**
- While you may choose to implement Login/Logout functionality for prototype, **you must also implement some core/business use cases of the system.**
- Select the set of requirements keeping in mind that you have a total of 4 weeks for prototype development. You may be asked to add more requirements if more can be achieved in the given duration.
- The prototype must be built using the tools and technologies that you have selected for your system development.
- Follow standard coding practices.
- By the end of the prototype development phase,
  - a. You should have learnt development tools and technologies.

- b. You should have a clear idea of detailed technical architecture of your system. After the prototype phase, you will be required to define detailed technical architecture of your system.

- **Prototype Submission**

- **Prototype Phase—1**

- a. Deploy the properly tested **working prototype** on an online hosting platform.
- b. Upload the **Code (zip file)** with proper comments in “prototype” folder of your project’s Github repository.
- c. Fill the provided template for **Readme-Prototype.txt** file and upload in “prototype” folder of your project’s Github repository.
- d. Fill the provided **Code Review Checklist** and upload in “prototype” folder of your project’s Github repository.

- **Prototype Phase—2**

- a. Deploy the properly tested **working prototype** on an online hosting platform.
- b. Upload the **Code (zip file)** with proper comments in “prototype” folder of your project’s Github repository.
- c. Prepare a **3-4 minutes video** that explains the functionality of your system prototype—to be uploaded in “prototype” folder of your project’s Github repository.
- d. Fill the provided template for **Readme-Prototype.txt** file and upload in “prototype” folder of your project’s Github repository.
- e. Fill the provided **Code Review Checklist** and upload in “prototype” folder of your project’s Github repository.

### 3. List of Requirements for Prototype

<List down the requirements selected for prototype development separately for each part.>

- **Prototype Use Cases: Phase—1**

Requirements	
Sr#	Use Case Name
1	Sign up / Login (Trader) Login (Admin)
2	View Stock Market Overview (see performance of popular stocks, as a list)
3	View watchlisted stocks

- **Prototype Use Cases: Phase—2**

Requirements	
Sr#	Use Case Name
4	View and interact with candlestick chart of a stock (see summary statistics in this view too)
5	Purchase a stock
6	Sell a stock
7	View portfolio of purchased stocks

## 4. Review checklist

Before submission of this deliverable, the team must perform an internal review. Each team member will review one or more sections of the deliverable.

Section Title	Reviewer Name(s)
Section 3	M. Raiyaan Junaid Hamid
Section 3	M. Rayyan Khan
Section 3	M. Shahmir Sher Qazi
Section 3	M. Ahmad
Section 3	M. Umar Zubair