Requirements Phase

-> During the requirements gathering phase, multiple methods were used to identify the needs of stakeholders. Requirements were collected through Google Form surveys distributed to potential users (traders, investors, general users), interviews with industry professionals and students who use trading platforms, and competitive analysis of existing financial/trading platforms to ensure relevance and practicality.

-> The requirements are categorized into functional requirements (defining what the system must do) and non-functional requirements (defining the quality and constraints of the system).

1. Functional Requirements
1. FR-1: The system shall allow users to sign up with email and password.
2. FR-2: The system shall allow registered users to log in securely.
3. FR-3: The system shall allow traders to create and post new signals (company, sector, trend, status, price range).
4. FR-4: The system shall allow traders to edit or delete their signals.
5. FR-5: The system shall allow users to view all signals posted by traders.
6. FR-6: The system shall allow users to like and save signals to a personal watchlist.
7. FR-7: The system shall allow users to subscribe to traders with available subscription plans.
8. FR-8: The system shall allow users to manage their subscriptions (renew, cancel, view status).
9. FR-9: The system shall allow admins to verify signals before they are published.
10. FR-10: The system shall allow admins to manage users (approve/reject accounts, deactivate).
11. FR-11: The system shall allow admins to generate reports (usage, subscriptions, signals).

2. Non-Functional Requirements
12. NFR-1: The system shall provide a responsive UI accessible on desktop and mobile.
13. NFR-2: The system shall encrypt passwords and sensitive data using secure hashing.
14. NFR-3: The system shall load core pages (login, signals list) within 3 seconds.
15. NFR-4: The system shall support at least 1000 concurrent users.
16. NFR-5: The system shall provide 99% uptime during trading hours.
17. NFR-6: The system shall allow scalability for future features (notifications, analytics).

Requirements Table

ID	Type	Requirement Description	Priority	Source
FR-01	Functional	The system shall allow users to sign up with email and password.	High	Google Form, Interview
FR-02	Functional	The system shall allow registered users to log in securely.	High	Google Form
FR-03	Functional	The system shall allow traders to create and post new signals (company, sector, trend, status, price range).	High	Interview
FR-04	Functional	The system shall allow traders to edit or delete their signals.	Medium	Interview
FR-05	Functional	The system shall allow users to view all signals posted by traders.	High	Survey
FR-06	Functional	The system shall allow users to like and save signals to a personal watchlist.	Medium	Google Form
FR-07	Functional	The system shall allow users to subscribe to traders with available subscription plans.	High	Interview
FR-08	Functional	The system shall allow users to manage their subscriptions (renew, cancel, view status).	Medium	Interview
FR-09	Functional	The system shall allow admins to verify signals before they are published.	High	Interview

ID	Type	Requirement Description	Priority	Source
FR-10	Functional	The system shall allow admins to manage users (approve/reject accounts, deactivate).	High	Admin Interview
FR-11	Functional	The system shall allow admins to generate reports (usage, subscriptions, signals).	Medium	Competitive Analysis

ID	Type	Requirement Description	Priority	Source
NFR-01	Non-Functional	The system shall provide a responsive UI accessible on desktop and mobile.	High	Survey
NFR-02	Non-Functional	The system shall encrypt passwords and sensitive data using secure hashing.	High	Analysis
NFR-03	Non-Functional	The system shall load core pages (login, signals list) within 3 seconds.	Medium	Survey
NFR-04	Non-Functional	The system shall support at least 1000 concurrent users.	Medium	Analysis
NFR-05	Non-Functional	The system shall provide 99% uptime during trading hours.	High	Interview
NFR-06	Non-Functional	The system shall allow scalability for future features (notifications, analytics).	Medium	Analysis