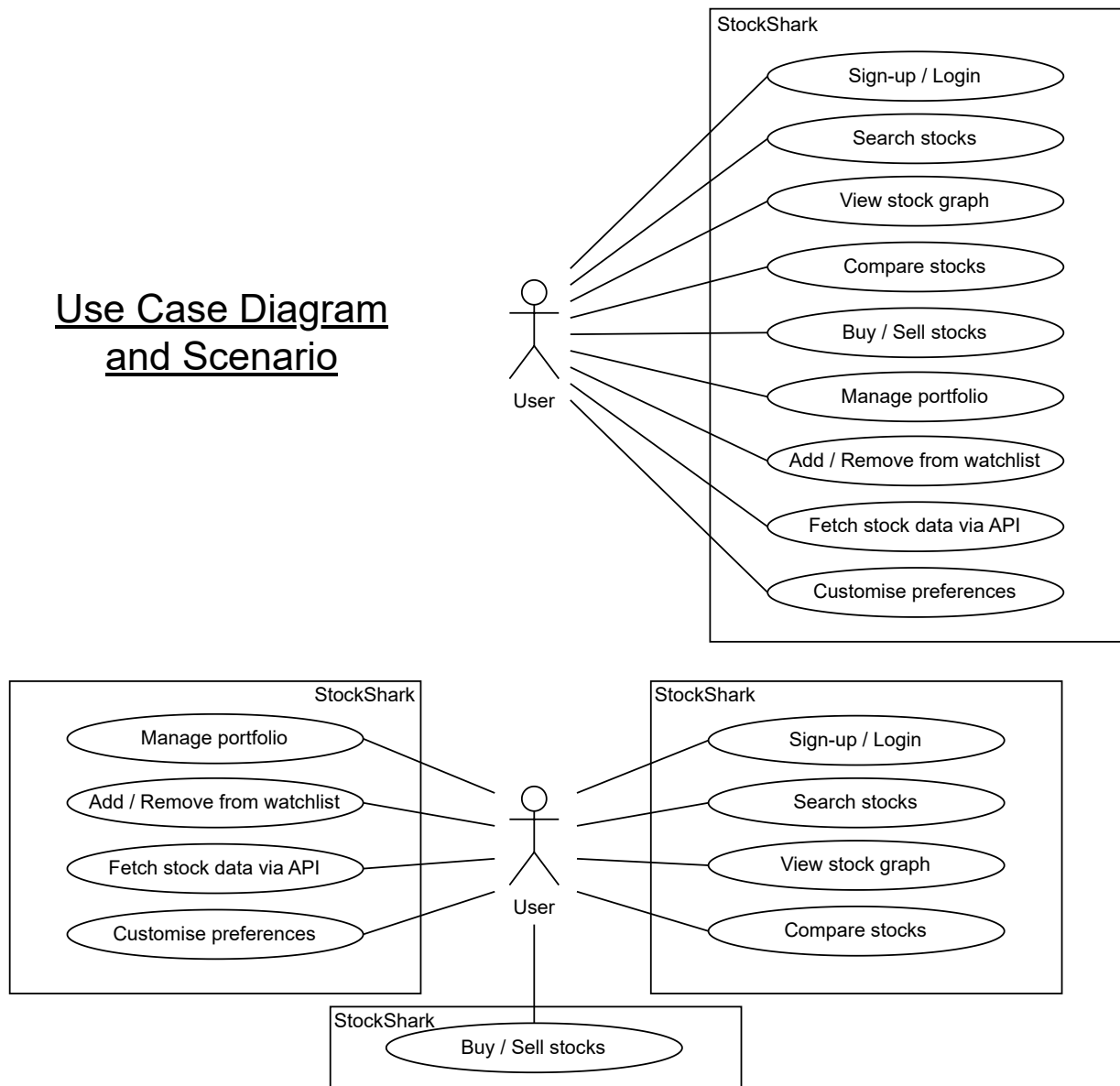
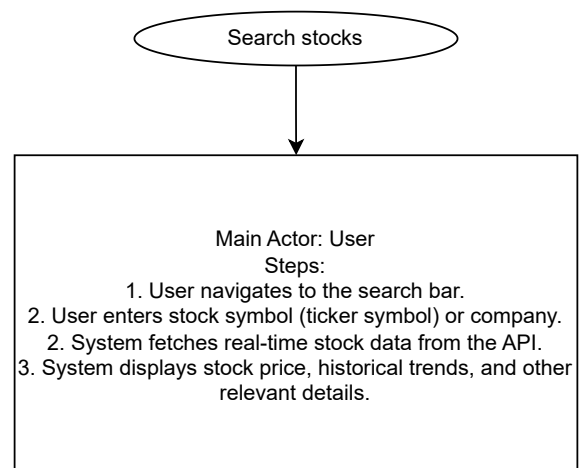
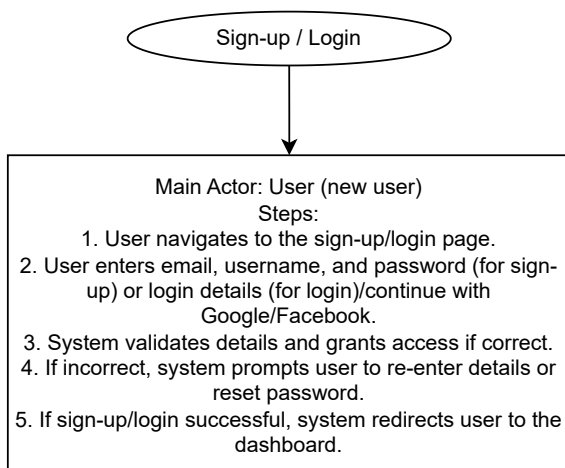


Use Case Diagram and Scenario



Scenarios



View stock graph

Main Actor: User

Steps:

1. User selects a stock from search results.
2. System retrieves historical stock data.
3. System generates and displays a price trend graph.

Compare stocks

Main Actor: User

Steps:

1. User selects multiple stocks to compare.
2. System fetches historical price data for selected stocks.
3. System displays stock trends on a single graph.

Buy / Sell stocks

Main Actor: User

Steps:

1. User selects a stock and chooses the "Buy" or "Sell" option.
2. System redirects to the payment platform for transaction execution.
3. After completion, system updates the user's portfolio.

Manage portfolio

Main Actor: User

Steps:

1. User accesses the "Portfolio" section.
2. System displays a summary of owned stocks, current prices, and profit/loss.
3. User can remove stocks from the portfolio if sold.

Add / Remove from watchlist

Main Actor: User

Steps:

1. User clicks the "Watchlist" icon next to a stock.
2. System adds stock to the watchlist and displays confirmation.
3. To remove, user clicks the "Watchlist" icon again, and the system removes it.

Fetch stock data via API

Main Actor: User

Steps:

1. User accesses API documentation for stock data retrieval.
2. User makes a request with a stock symbol and time range.
3. System returns stock price data in JSON format.

Customise preferences

Main Actor: User

Steps:

1. User accesses settings from the navigation menu.
2. User selects customisation options (theme, notifications, layout).
3. System saves and applies changes immediately.