

Stock Market Advisor Scenario 2

Group 7 - Abhishek Walvekar, Federico Mansutti, Keyur Patel, Esat Duman

The stock platform offers users secure access to various financial tools and market data. Upon logging in, users are welcomed to the Market Overview, where they can explore real-time stock prices and in-depth performance metrics. This interface allows users to search for specific stocks and instantly access detailed historical data and trends.

The Daily Predictions section is a vital platform feature, where users can view daily stock predictions based on projected percentage gains. Each prediction is paired with relevant news articles, providing additional context to support informed investment decisions. Users can also manage their investments through the Investment Summary, which calculates and displays their total gains and portfolio performance.

To personalise their experience, users can set preferences for prediction timeframes, such as daily, weekly, or monthly forecasts. Additionally, the platform features a curated Market News Feed, where users can stay updated on relevant market trends and news that may affect their financial positions.

Scenario 2 focuses on completing the backend infrastructure and integrating the prediction model to ensure accurate data retrieval and efficient processing across all features.

Scenario: "Market Performance Insights"

1. Secure Access:

In Scenario 2, users will continue to securely log in to the platform using their credentials (username and password). The backend will handle authentication, ensuring only authorized users can access their financial data and tools.

2. Market Overview:

Once logged in, users will be directed to the Market Overview section, where they can view live stock prices and performance metrics. The backend will be responsible for fetching real-time data and presenting it on the platform. Users can also search for specific stocks, and the backend will retrieve the relevant information from external data sources.

3. Daily Predictions:

The core feature in Scenario 2 is the integration of the Daily Predictions dashboard. The backend will be connected to the prediction model, providing users with daily stock predictions based on anticipated percentage gains. When a user selects a prediction, the backend will fetch relevant news and data to give users comprehensive insights into each stock prediction.

4. Investment Summary:

The Investment Summary section will allow users to view and manage their personal portfolios. The backend will ensure that user-specific investment data is retrieved and displayed accurately, including total gains over a selected period. Users can also add, transfer, or withdraw funds, with the backend securely processing all financial transactions.

5. User Customization:

The User Customization feature will enable users to set their preferences for prediction timeframes (daily, weekly, or monthly). The backend will store and apply these preferences, ensuring that prediction data aligns with the user's selected timeframe.

6. Market News Feed:

The Market News Feed will provide users with curated articles related to market trends and financial developments. The backend will retrieve and update news articles, ensuring users stay informed about current market conditions that may impact their investments.

7. Backend and Prediction Model Integration:

Scenario 2 will focus on completing the backend infrastructure and connecting it to the prediction model. The backend will handle data retrieval from APIs, process the predictions generated by the model, and deliver the results to the front end for display. The prediction model will be fully integrated, providing users with daily predictions based on market data, while the backend ensures seamless performance and reliable data delivery.