

Frontend Team Week 4

Group Members:

Ayca Gökdağ

Doğa Güneş Karadağ

Salih Bulmaz

Semih Gençten

Baturalp İnce (Data Visualization)

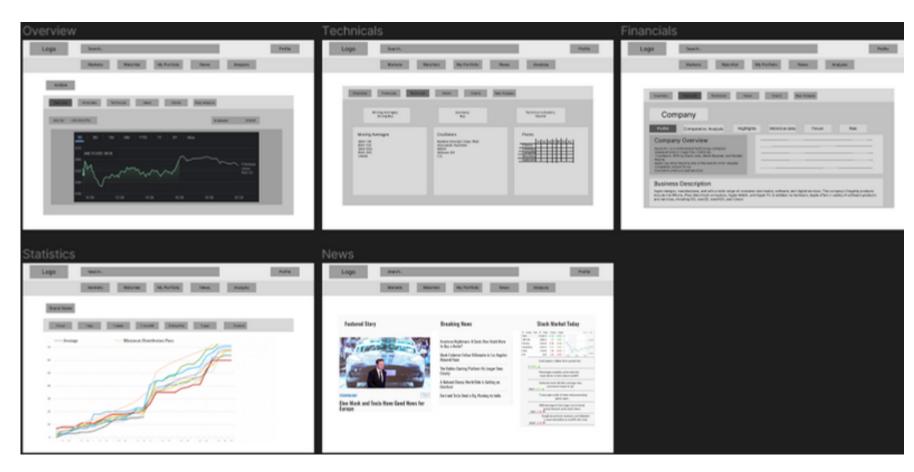
Ayberk Bozkuş (Data Vİsualization)

Nour Elhouda Znagui

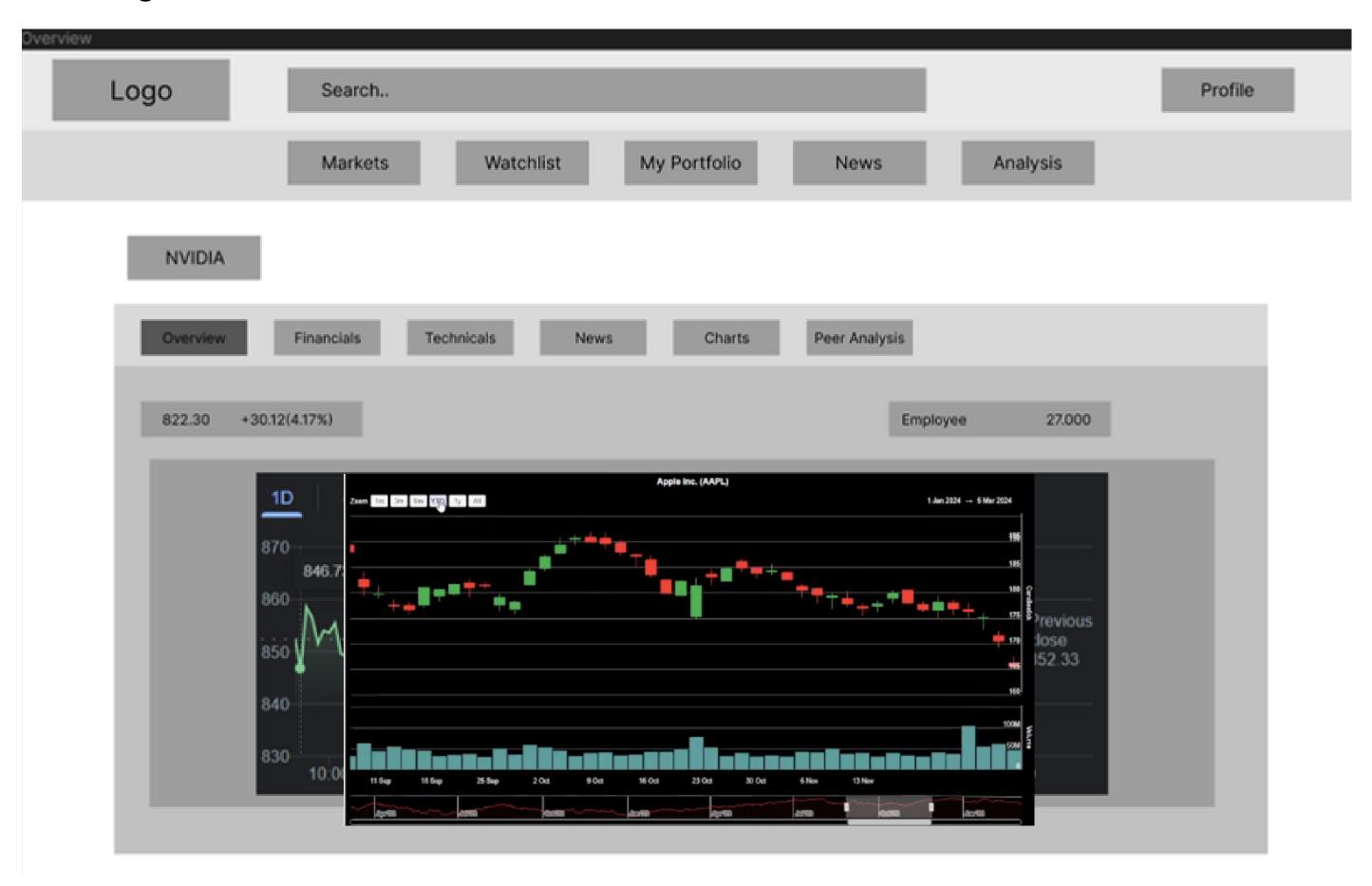
Mock Up Designs and Hierarchy



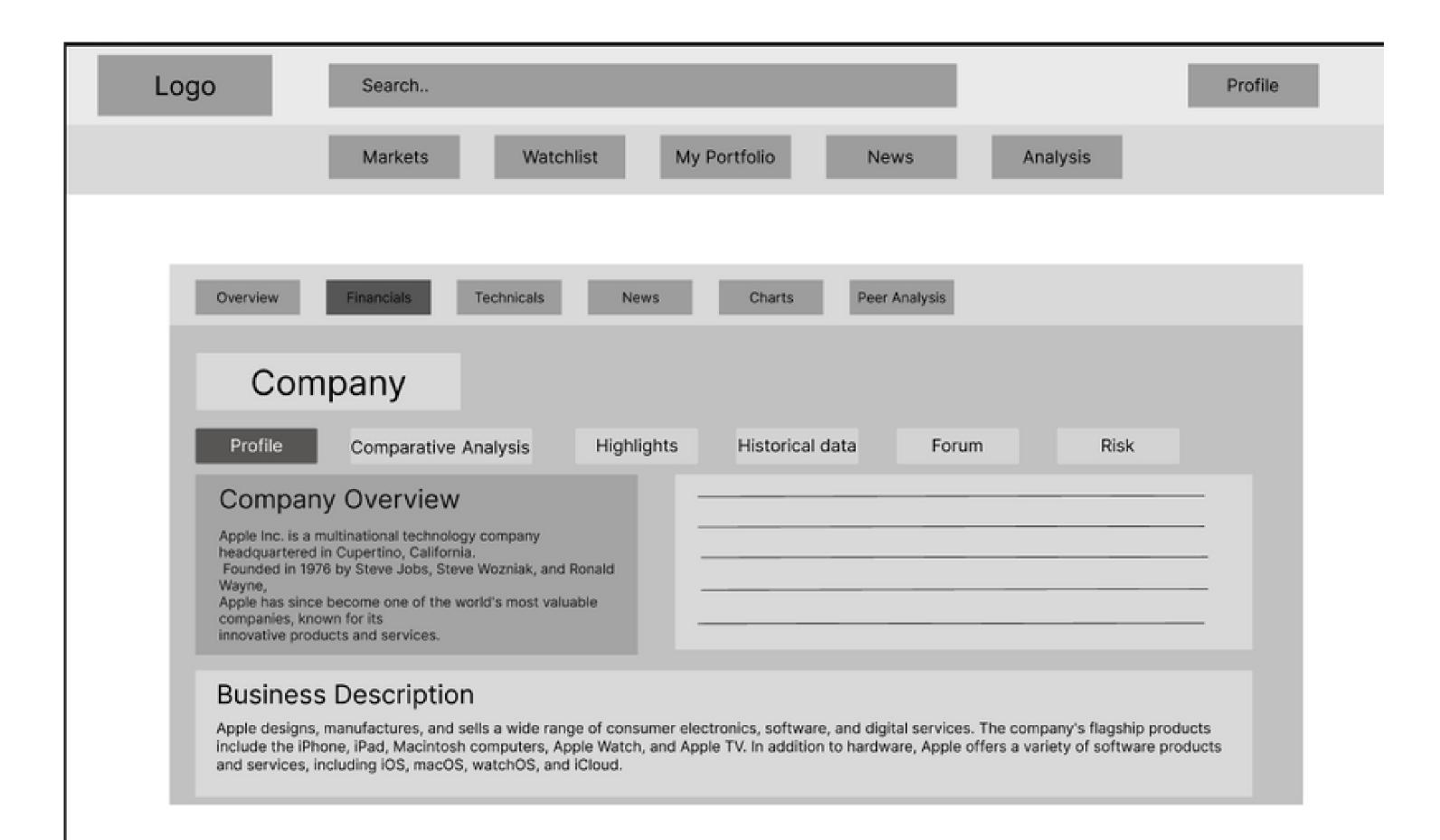
- Designed in Figma
- To show general concept
- To show hierarchy of pages
- More complex pages designed firstly



Overview Page For a Stock



Financials





FINANCIALS

Financial Statements

- IncomeStatement
- Balance Sheet
- Cash Flow Statement

Historical Performance

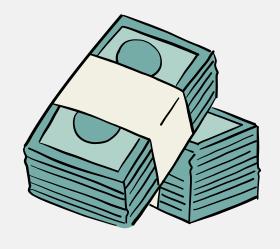
 Historical data on the company's financial performance

Financial Highlights

- Revenue trends
- Profit trends
- Key financial achievements or challenges

Comparative Analysis

- IndustryComparisons
- SectorComparisons
- CompetitorComparisons



FINANCIALS

Profile

- Company's history, mission, and vision.
- Background
- Industry
- Fund Overview

Forum

- DiscussionBoards
- Customizable

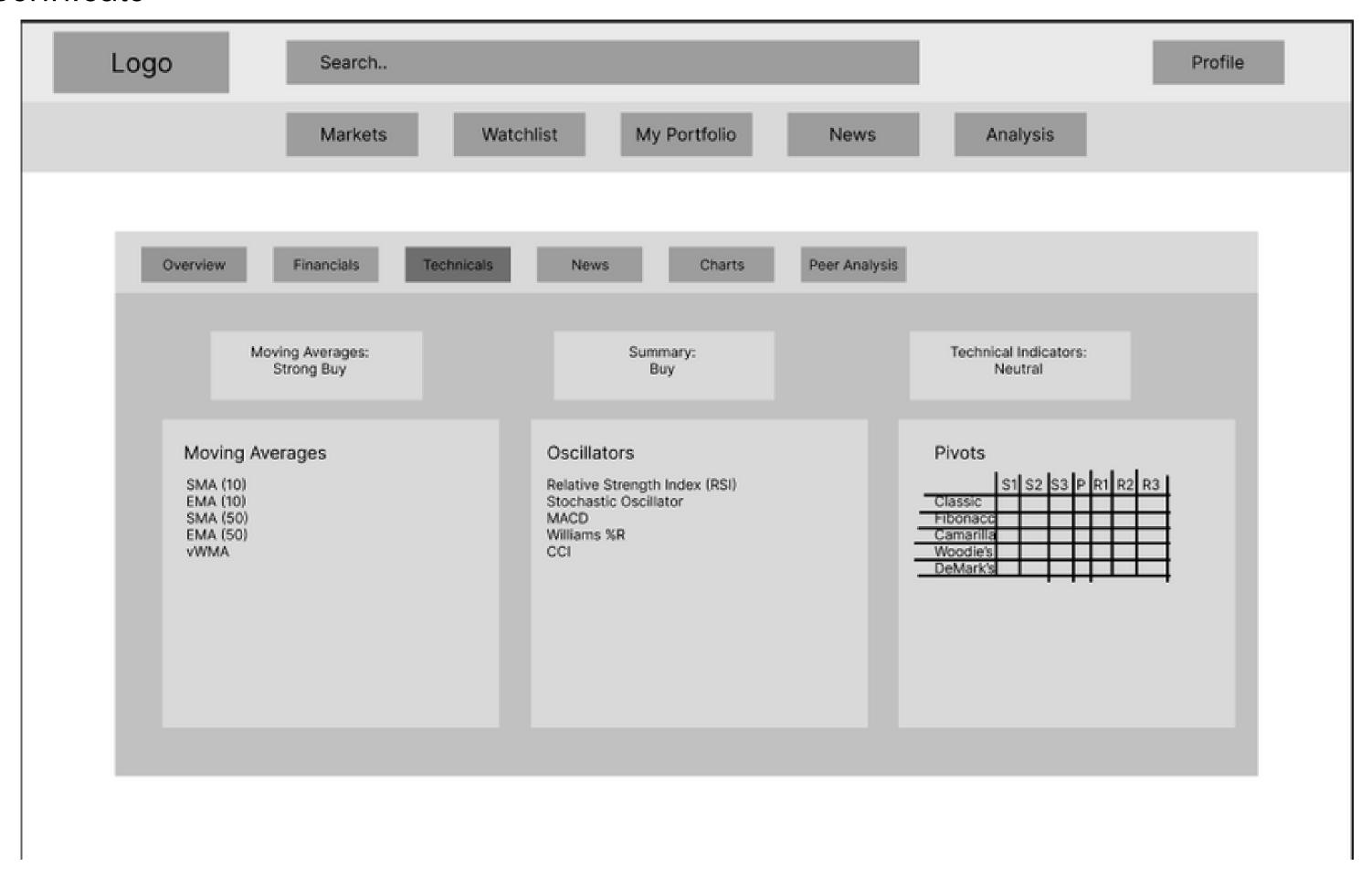
Dividens

- DividendSustainability
- Dividend History
- Dividend Policy

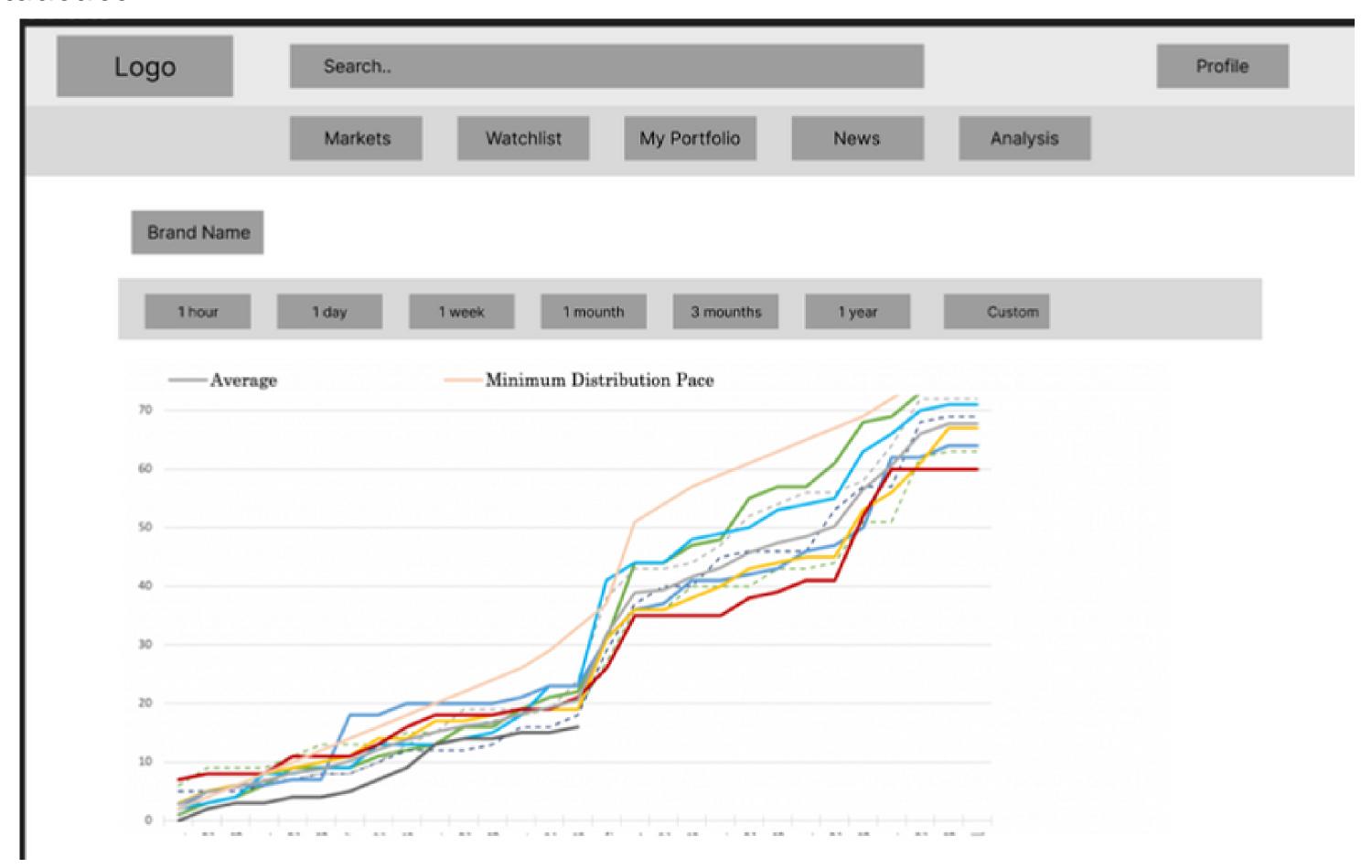
Financial Forecasting

 Future financial performance through forecasting or analyst estimates.

Technicals



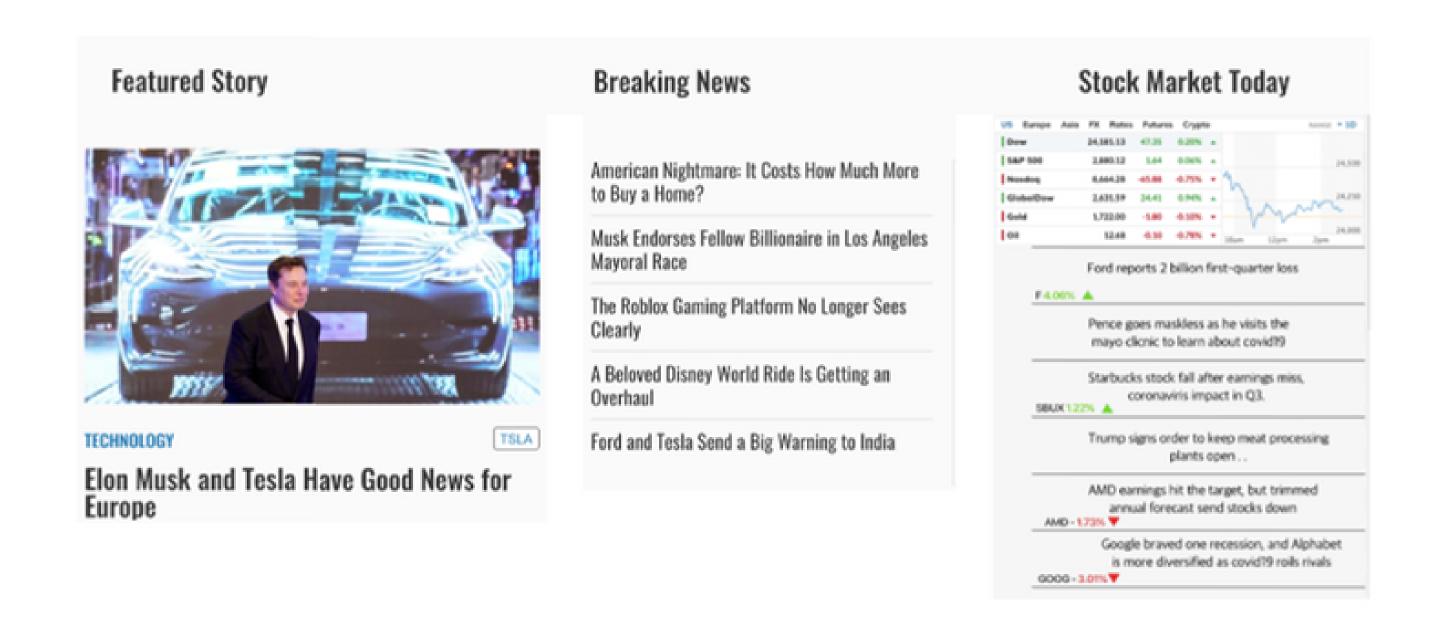
Statistics



News

Logo Search.. Profile

Markets Watchlist My Portfolio News Analysis



Data Visualization HighCharts.js Implementation

- Candlestick and Volume Bar Graphs are displayed for sample AAPL Stock Data
- Light/Dark Modes are implemented

Advantages

- Faster and more modular development
- Easier to customize compared to TradingView Lightweight
- Education (non-commercial) License upon registration

HighCharts.js - Demo





HighCharts.js Data Format

Candlestick Graph uses the following series format: [date, open, high, low, close] for each entry

Volume Bar Graph uses the following series format: [date, volume] for each entry

```
Volume Bar:
▼ Array(502) 1
▼ [0 ... 99]
▶ 0: (2) [1646663400000, 96418800]
```

- Data format structure could be changed based on Backend Team's design
- date = unix timestamp

Roadmap

- Improving the HighCharts Implementation
- Creating add/remove Volume Bar or any other Technical Indicator functionality
- Refactoring graph component for dynamic data
- Updating style of the graph after receiving the feedback

TradingView Implementation

- Candlestick and Volume Bar Graphs are displayed for sample stock data
- Light/Dark Modes are implemented

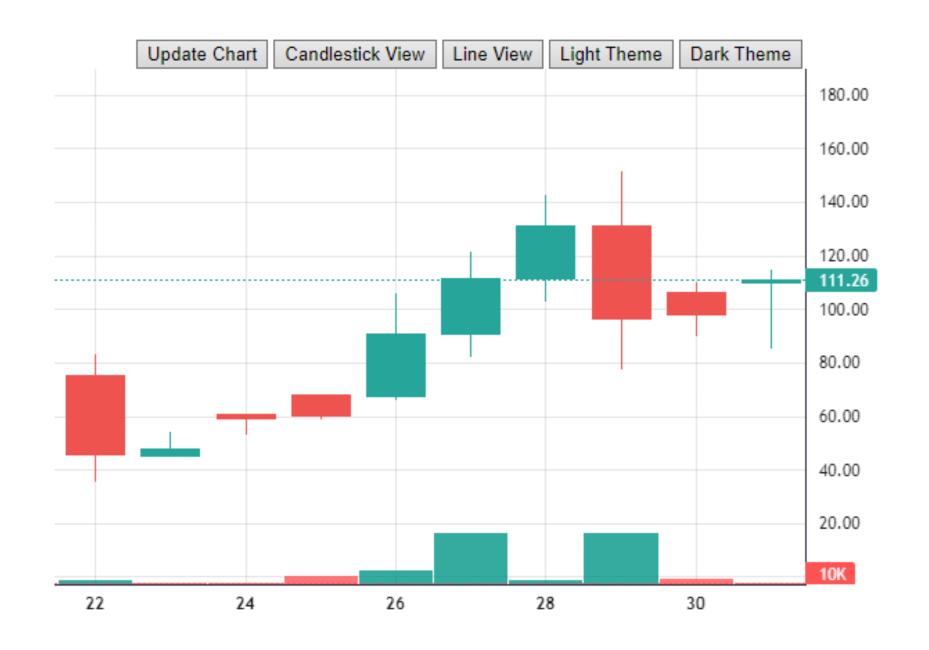
Advantages

Simpler when the requirements are not complex

Disadvantages

- Some crucial functions are not available such as crosshair syncronization, multiple (separate) graph support
- Potential to generate problems on dynamic data

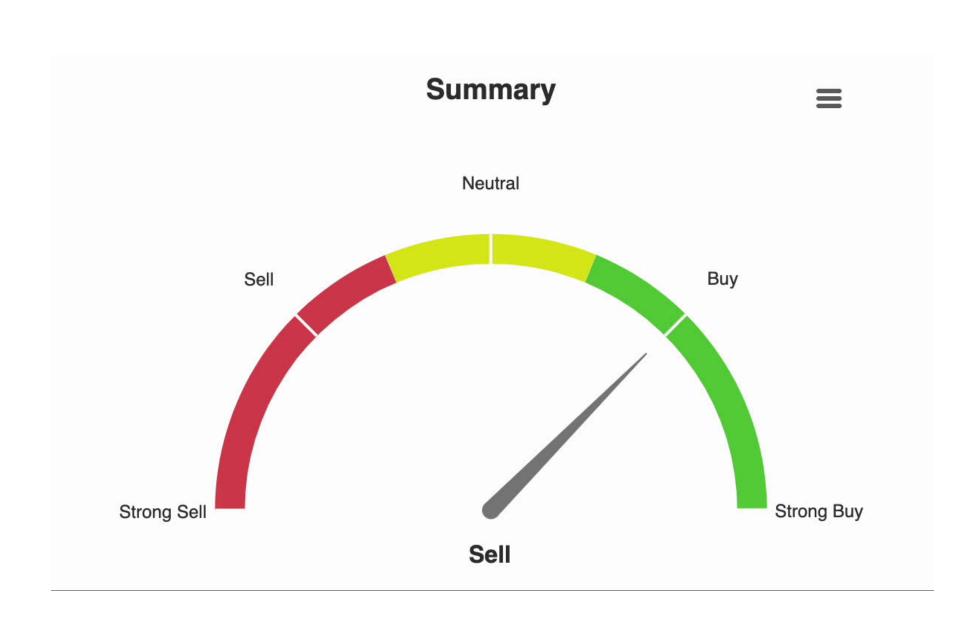
TradingView Lightweight - Demo







HighCharts.js- Gauge Chart



Oscillators: Indicate overbought or oversold conditions by measuring the velocity and magnitude of price movements.

Moving Averages (MAs): Identify the direction of market trends by averaging prices over specific periods.

Pivots: Determine potential support and resistance levels using the previous period's high, low, and close prices.

UI Development

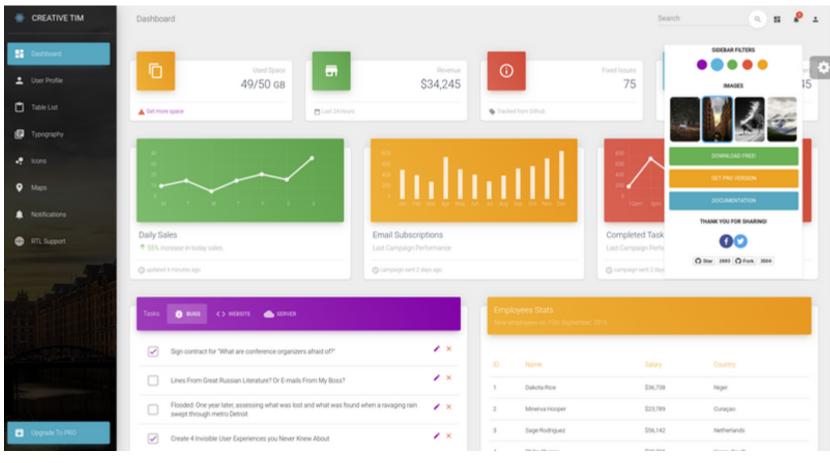
Usage of Templates

- Template is a project that has pages and components implemented and ready to use.
- Templates we would like to choose are mainly used for dashboard intensive applications.

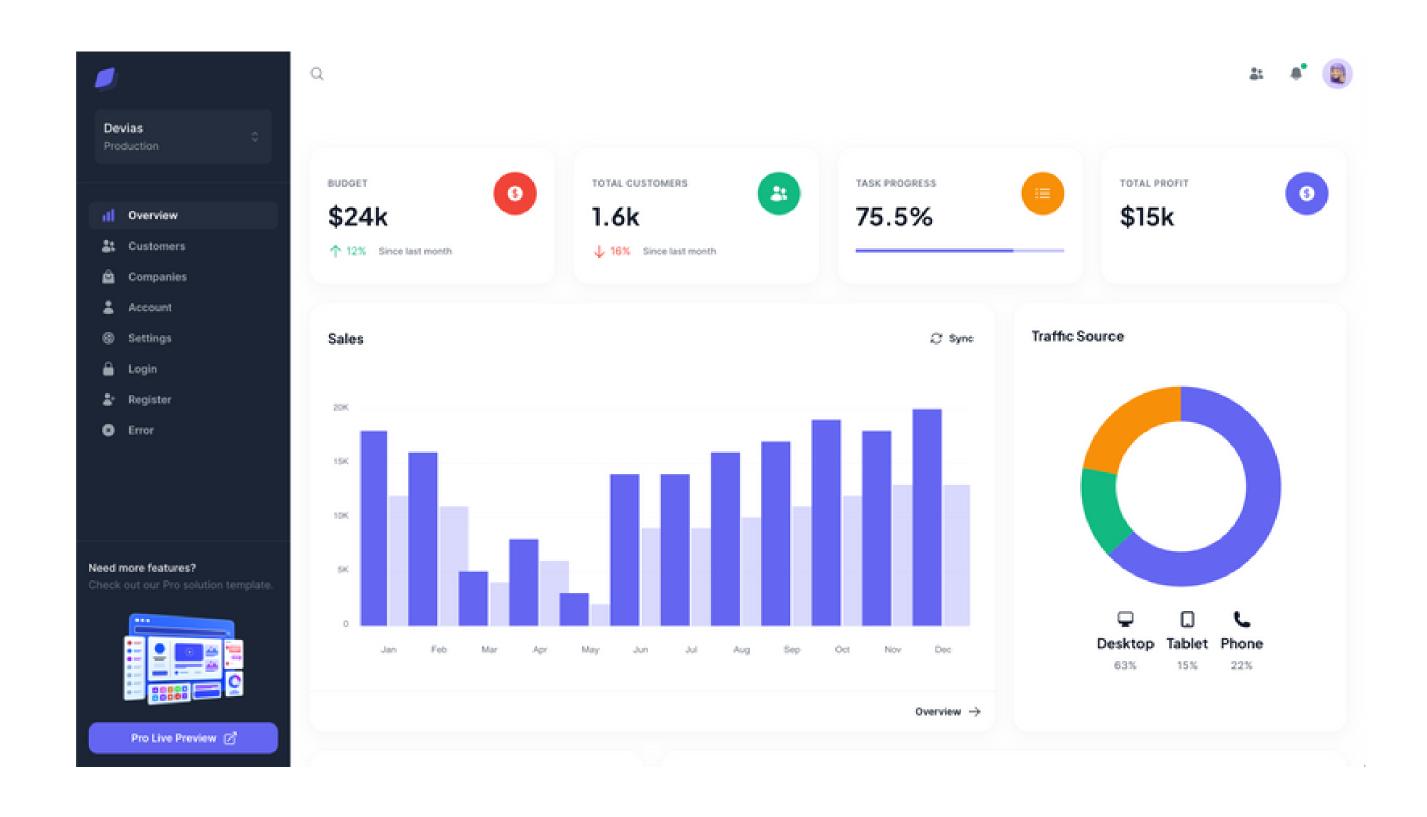
Advantages

- Reducing the time to develop the UI
- Easier to sync page designs across different members of the team
- They are free to use

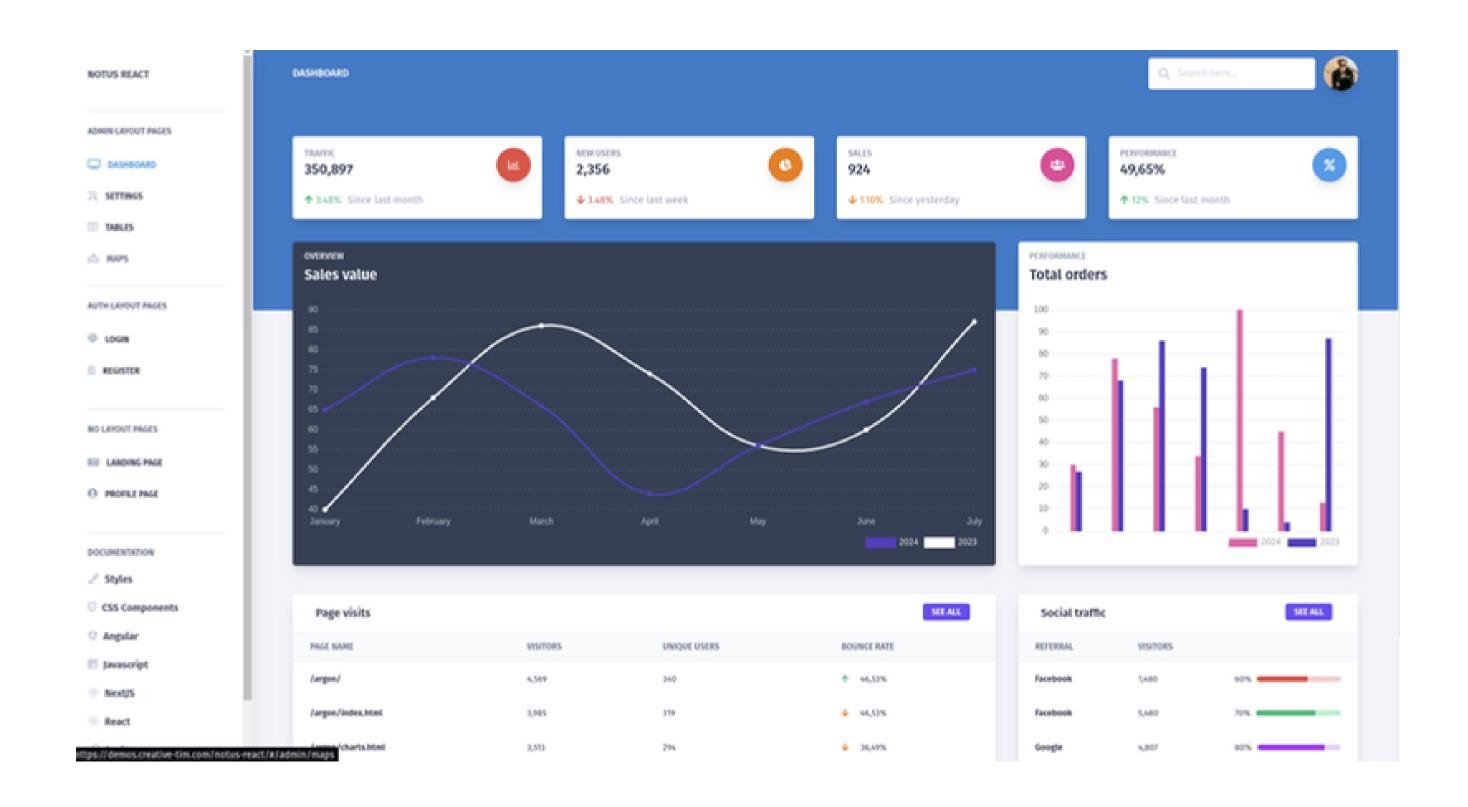




Example Templates



Example Templates



This week,

- we began creating the page details,
- prepared shared documents,
- selected the template we will use.

What we are planning for next week?

- We will customize key elements of the website's structure such as the toolbar, menu, and footer.
- We will complete the design details of the subpages by assigning tasks and distributing responsibilities.