**Proposal for Stock Insight: Real-Time Stock Data Analyzer**

**Overview**

**Problem Statement:**

* **The project addresses the need for a user-friendly, real-time stock market data analysis tool. Many existing platforms are either too complex for average users or do not provide real-time data efficiently.**

**Purpose:**

* **To provide an interactive, real-time platform for stock market analysis. This will aid users in making informed investment decisions by providing up-to-date stock data and historical trends.**

**Target Audience:**

* **The primary users are individual investors who want a quick overview of stocks they may be following.**

**Major Functions:**

1. **Real-Time Stock Data Retrieval: Fetching live stock market data using APIs like Alpaca API.**
2. **Historical Data Charts: Displaying historical stock data using ApexCharts.**
3. **Stock detail page will show recent news articles, along with the stock chart**
4. **Search Functionality: ability to search for stocks by ticker**
5. **User favorites: utilize local storage to keep a list of the users favorite stocks, these will be displayed in cards on the home page.**

**Wireframes**

* [**https://www.figma.com/file/zUEHokNd42tuOcoJaQSusU/Untitled?type=design&node-id=0-1&mode=design**](https://www.figma.com/file/zUEHokNd42tuOcoJaQSusU/Untitled?type=design&node-id=0-1&mode=design)

**Data Sources**

* **Primary: Alpaca API or Yahoo Finance API for live-stock data.**
* **Secondary: Local JSON files for mock data during development or for additional data storage.**

**Initial Module List**

* **API Data Fetching Module**
* **Chart Visualization Module**
* **User Preferences and Dashboard Module**

**Design Elements**

* **Colors: for my colors I’m choosing a cool blue theme** [**https://coolors.co/173753-6daedb-2892d7-1b4353-1d70a2**](https://coolors.co/173753-6daedb-2892d7-1b4353-1d70a2)
* **Typography:** 
  + **Headers:** [**https://fonts.google.com/specimen/Sixtyfour**](https://fonts.google.com/specimen/Sixtyfour)
  + **Tittles:** [**https://fonts.google.com/specimen/Oswald**](https://fonts.google.com/specimen/Oswald)
  + **Other text:** [**https://fonts.google.com/specimen/Montserrat**](https://fonts.google.com/specimen/Montserrat)

**Development Schedule**

* **Week 5:**
  + **Basic outline of the site, with layouts and test data**
* **Week 6:**
  + **Connect to stock API**
* **Week 7:**
  + **Finish all integrations and polish CSS, layouts, and Animations.**

**Trello Board**

* [**https://trello.com/b/G1MhqmD0/stock-data-viewer**](https://trello.com/b/G1MhqmD0/stock-data-viewer)