

PROJECT PROPOSAL - TRADIE

Tradie is a mobile application designed to provide real-time insider trading filings, company information, stock history, and future predictions for individual investors. The app is built to deliver detailed stock market data, helping users make more informed investment decisions by providing transparent, up-to-date information on insider trading activities and stock trends. Unlike many stock apps that provide generalized market data, Tradie focuses on the specific data related to insider trading, which is a critical indicator of a company's future performance and can be a valuable signal for potential investors.

The main features of Tradie include:

Real-Time Insider Trading Data: The app scrapes insider trading filings, using sources like OpenInsider, to provide users with the latest trading activities of company executives and insiders.

Company Information: Users can access detailed profiles of companies, including financial reports, stock performance, and insider activities.

Stock History and Predictions: Integrating data from the Yahoo Finance API, Tradie offers historical stock data and predictive analytics to help users forecast stock trends.

User Alerts and Notifications: Users can set up custom alerts to be notified about significant changes in insider trading activities or stock performance.

Portfolio Management: Tradie allows users to manage their tracked stocks and track investments

The application will be developed using React Native for the mobile app, FastAPI for the backend, and PostgreSQL for data storage. The app will be optimized for both iOS and Android platforms, providing a smooth experience across different devices.

Tradie targets individual investors, particularly those interested in insider trading data as a primary investment signal. It aims to provide a comprehensive solution for users who want to track stock performance and insider activities without needing multiple apps or complicated setups.

- Justification of the Project

The development of Tradie is a highly relevant project for this class as it directly applies and builds upon the skills I have gained from previous courses, SURP, data analysis, and mobile application development. By developing Tradie, I will deepen my expertise in working with

APIs, backend dev, and mobile app development, which are key areas of focus in my academic studies.

The technical difficulty of the project is appropriate for this course, offering a challenging yet achievable goal for the semester. It involves integrating real-time data from multiple sources, implementing predictive analytics, and developing a user-friendly interface, which will allow me to demonstrate a range of technical skills. The project also includes important considerations related to scalability, optimization, and security, ensuring that it aligns well with the technical expectations for the class.

Furthermore, Tradie is a practical project with real-world applicability. It serves individual investors, a growing demographic, with a tool that can provide them with critical insights into stock performance based on insider trading activity, an often-overlooked but powerful indicator. The opportunity to apply financial data in a meaningful way makes this project both interesting and beneficial to a wider audience beyond the classroom. The project is also sufficiently complex to demonstrate my ability to design and implement a full-stack application within the given timeframe, while still being feasible within the scope of one semester.

Overall, Tradie is not only a challenging and relevant project for my academic development, but it is also a project that aligns with my interests in finance, stock trading, and mobile app development. The outcome will not only be a valuable addition to my portfolio but also a practical tool that could serve the needs of real-world users. Hopefully I can make some money off of it in the end.