Capstone LOI

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Wallet Address

D7UVB8LidZoA2mRfT11nvKDhjpDAywsMdUEekYATs3JA

Name

Joep Peters Sengers, @wdotsol on X

Github Link

https://github.com/wdotsol

Your Capstone Project Name/Idea

wScout(DubScout/DUB)

Brief Project Description

wScout is an on-chain aggregator platform focused on prediction markets and sports betting. The platform pulls odds from betting and prediction market platforms, to identify arbitrage opportunities and mispricing inefficiencies. Users view aggregated tables of odds and market data, and if an arbitrage or value opportunity is detected, wScout facilitates bet placement directly from the platform. The platform allows users to maximize their returns by capitalizing on profitable bets.

The reason I am building/choosing this project is...

I have been engaged in arbitrage betting between on-chain and off-chain markets for the past two years, relying on my own data scraping and aggregation processes due to the lack of an existing service in crypto. In traditional markets, platforms like OddsMonkey, OddsJam, and RebelBetting offer odds aggregation services through subscription models; however, there is currently no equivalent for crypto-based markets.

With the recent rise in prediction markets and the development of futarchy concepts, I believe there is a significant opportunity to add value by aggregating odds and market data from these platforms. This project aims to fill a gap in the crypto ecosystem, providing users with the tools they need to identify and capitalize on inefficiencies across on-chain prediction markets and betting sites.

While I initially considered aggregating off-chain markets as well—since, in my experience, the best arbitrage opportunities often appear between on-chain and off-chain platforms—possible legal complexities and technical requirements of integrating off-chain markets are substantial. For this reason, I am focusing on on-chain aggregation for the Minimum Viable Product (MVP), with the potential to expand into off-chain integration in the future.

And finally, this project represents an opportunity to showcase the skills I've developed at Turbin3

Go-to-Market Strategy

wScout will implement a subscription-based revenue model with tiered access, inspired by successful services like RebelBetting, OddsJam, and OddsMonkey. Users can choose from Free Trial, Starter, and Pro tiers, unlocking features such as real-time odds updates, automated betting, and advanced betting insights. The Free Trial will allow limited odds comparison and capped arbitrage percentages, providing new users with an introductory experience. This freemium approach aims to attract a broad user base while encouraging upgrades for full functionality.

Additionally, wScout may offer a revenue-sharing option, where users pay a small fee or percentage on successful bets. Partnerships with larger prediction market platforms and sportsbooks could also be explored, with wScout potentially receiving volume-based rebates for directing user bets through these platforms.

Tech: The technologies I will use in my build are...

The tech behind wScout combines blockchain, backend, and frontend technologies to enable data scraping and aggregation, automated transactions, fund management, and an intuitive user experience. This is achieved through the following components:

Backend & Data Aggregation
- Transactions/user funds : Rust/Anchor
- Oracle: Executes arbitrage logic Rust/Javascript/Python
- APIs: Integrate with betting and prediction market APIs to pull live odds and betting data.
- Web Scraping: For platforms that don't offer API access, web scraping(Python) will gather odds data.
- Data Storage: Use a cloud database to store and organize betting odds, historical data

Frontend
- User interface: The UI will likely be designed in React, allowing users to view odds, manage bets, and track arbitrage opportunities.

Method: Programming language for SC / Testing

Rust/Anchor
Javascript

Testing in steps
1. Unit testing: Each component will undergo isolated testing.
2. Integration testing: Test operation between the aggregator, on-chain network and third party API's
3. End to end testing: Simulate the complete user experience, viewing odds to placing bets and managing funds

Front End Plans (Ok if you need help here)

React will likely be the main framework for the wScout front end. Given the overwhelming nature of aggregated data, the interface will be designed to be

minimalistic, focusing on usability and clarity. This allows users to concentrate on data and actions without distraction.

Core UI components
- Odds aggregation table per category/sport
- Bet management dashboard
- Arbitrage/mispricing notifications
- User wallet and betting history

Initials