

Assignment: Capstone Project Definition & Market Analysis

Part A: Initial Definition & Research

1. Project Overview

The project is a **decentralized prediction market protocol built on Solana**, enabling users to create, trade, and settle prediction markets on real-world events such as crypto prices, governance outcomes, and global events. The platform leverages Solana's high throughput and low fees to enable fast, low-cost market creation and trading. Unlike existing prediction markets, this project focuses on **permissionless market creation, composable liquidity, and on-chain settlement**, making it developer-friendly and scalable for retail participation.

2. Core Value Proposition & Product-Market Fit (PMF)

Synthesized Value Proposition & PMF

The core value proposition is **trust-minimized, low-cost, and high-speed prediction markets** powered by Solana's performance advantages. The platform delivers value across three areas:

1. **Efficiency** – Near-instant trades and settlement with negligible fees.
2. **Accessibility** – Permissionless market creation lowers barriers for individuals, DAOs, and communities to create their own markets.
3. **Composability** – Markets and liquidity can integrate directly with Solana DeFi primitives, enabling advanced use cases like DAO governance forecasting and hedging.

3. Key Target Markets

1. **Crypto-native traders and DeFi users** seeking speculative and hedging instruments.
2. **DAOs and Web3 communities** needing governance and proposal outcome forecasting.
3. **Developers and protocols** looking to embed prediction markets into dApps.
4. **Retail users in emerging markets** priced out of high-fee Ethereum platforms.

4. Competitor Landscape

AI-Identified Competitors

- **Polymarket** – Centralized UI, regulatory constraints, limited market creation.
- **Augur** – High gas costs, poor UX, declining activity.
- **Gnosis** – Powerful tooling but complex UX and Ethereum fee overhead.

Manually Identified Competitors (Missed by AI)

- **Drift** – Indirect competition via perpetuals for price speculation.
- **Kalshi** – Centralized but legally compliant alternative.
- **Azuro** – Focused more on sports betting than open forecasting.

Gap Analysis

AI correctly identified **direct prediction market competitors** but underweighted **derivatives protocols** that compete for the same speculative capital. Most competitors suffer from one or more of the following gaps: high fees, regulatory friction, limited composability, or poor UX. There is a clear opportunity for a **Solana-native, composable, low-latency prediction market layer**.

5. Founder-Market Fit (FMF)

I come from a **full-stack web development background** with experience in MERN, blockchain fundamentals, and active exploration of **Solana smart contract development using Rust/Anchor**. I understand both frontend UX challenges and on-chain constraints, which is critical for building usable DeFi protocols. My interest in Web3 markets, incentive design, and decentralized systems aligns directly with prediction markets, which sit at the intersection of finance, information aggregation, and smart contracts.

Part B: Adversarial Analysis & Refinement

1. Adversarial AI Critique (Summary)

Key critiques raised by AI:

- Prediction markets are **not a blue ocean**; incumbents already exist.
- Liquidity bootstrapping is difficult and often the biggest failure point.
- Regulatory pressure may limit real-world event markets.
- Users may prefer perps/options over prediction markets for speculation.

My Analysis:

These critiques are valid. However, they strengthen not weaken the case for focusing on **crypto-native, DAO, and protocol-level markets** rather than broad political or real-world betting. Solana's performance allows experimentation with **micro-markets and fast-settling forecasts** that are impractical on Ethereum.

2. Refined Project Definition

Refined Value Proposition

A **Solana-native prediction market protocol optimized for crypto, DAO, and on-chain events**, prioritizing speed, low fees, and composability over broad retail betting.

Refined Target Market

1. Crypto traders and DeFi users
2. DAOs and governance platforms
3. Solana developers building composable dApps

Refined Competitive Positioning

The project does not aim to replace Polymarket or Kalshi. It targets **use cases they cannot efficiently serve**, such as DAO-level forecasting, protocol risk markets, and embedded prediction markets inside dApps.

3. Critique & Refinement of Founder-Market Fit

AI Critique Summary

- Limited direct experience running prediction markets
- No existing liquidity network

Refinement Rationale

Founder-market fit is strengthened by positioning this as a **developer-first infrastructure project**, not a consumer betting app. My strength lies in **engineering execution**, not marketing or regulatory navigation.

Refined FMF Statement

My founder-market fit lies in building **developer-centric, on-chain infrastructure** on Solana. With a strong foundation in full-stack development and growing expertise in Solana/Rust, I am well-positioned to design performant smart contracts, composable APIs, and usable interfaces. This project aligns with my long-term goal of building core Web3 primitives rather than surface-level applications.