Capstone Letter of Intent (LOI)

I. Personal Information

• Name: Mahelika

• Email: imahelika@gmail.com

• GitHub: https://github.com/mahelika

• **Discord:** #mahelikaa2328

X (Twitter): https://x.com/mahelikaaX

• **Background:** Web3 developer focused on Solana, with a strong interest in building tools that empower individual productivity, habit formation, and on-chain utility. Currently learning Rust, Anchor, and building full-stack dApps on Solana.

II. Project Overview

Capstone Project Name/Idea: F0x01 – A Decentralized Pomodoro Protocol

• Brief Project Description:

Fox-zero-one is a Solana-based productivity protocol that gamifies deep work using the Pomodoro technique. Users commit to focused work sessions by locking up \$FOCUS tokens for a predefined time (e.g., 25 minutes). If they complete the session, they earn their tokens back- possibly with bonuses. If they quit early, they lose access to them temporarily. The goal is to help people build a habit of consistency through skin-in-the-game incentives. Future versions may integrate with Wakatime or GitHub for proof-of-work.

• Reason for Choosing this Project:

I believe productivity is deeply personal, but current tools don't hold us accountable. F0x01 leverages Web3's programmable incentives to nudge people toward consistency, without needing a manager or algorithm. I want to build this for myself and others who struggle with distractions and crave a meaningful system of self-discipline and reward.

III. Go-to-Market Strategy

• Target Audience:

- Students & Self-Learners: Especially devs in bootcamps, online cohorts, and those doing deep solo study.
- Remote Workers & Freelancers: Who rely on time discipline and want accountability.
- Web3 Builders: Who love the idea of using smart contracts to enforce personal productivity.

• Value Proposition:

- Lock tokens -> focus -> get them back = accountability on-chain.
- o Completely self-driven. No external policing, no surveillance.

- o Token-based motivation to build better habits.
- Simple, effective interface built for actual usage.

Marketing and Distribution:

- Share progress and open dev logs on Twitter, GitHub, and Superteam.
- Run a closed alpha with productivity-focused Web3 communities.
- o Partner with digital wellness DAOs and student DAOs to test behavior loops.
- Consider launching a limited early access beta with NFT badges and on-chain streaks.

Competitive Landscape:

- Existing Pomodoro timers (like Forest, Focusmate) are web2 and centralized.
- o Habit/NFT tools (e.g., Habitica, Stepn) gamify behavior, but not focus time.
- FocusFlow is unique because:
 - It's minimal, self-sovereign, and token-based.
 - Users *stake* their intent to focus—directly.
 - It's open-source and composable (future integrations with GitHub, Wakatime, etc.)

IV. Technical Details

• Tech Stack:

- o Blockchain Platform: Solana
- Smart Contract Framework: Anchor (Rust)
- Frontend: React + Tailwind CSS
- Wallet Integration: Solana Wallet Adapter (Phantom, Backpack)
- Timer Logic: On-chain timestamps validated by client-side action (simple until trustless PoW added)
- Optional DB: Helius or Supabase (for session logs, non-critical analytics)

• Smart Contract Design:

- Stake token for a Pomodoro session
- Timestamp recorded on-chain
- If session completes successfully → tokens returned
- If abandoned early → tokens locked/frozen or burned (based on logic)
- Room for future NFT rewards or streak bonuses

Testing & Security:

- Unit tests for staking, claiming, and timeout logic
- Integration testing on Solana devnet
- Clear, deterministic flows with minimal complexity
- Follow Solana security best practices with Anchor

V. Conclusion

• Project Timeline (2-Week Plan):

Week 1: Programs + Logic

- Finalize staking and timing mechanism
- Write Anchor contracts: staking, result validation, token return/penalty
- Setup local + devnet deployments
- Unit tests for each contract function

• Week 2: Frontend + Integration

- Build minimal timer UI (React + Tailwind)
- Wallet connect and staking form
- Show timer countdown and session validation
- o On-chain session history and token claim
- o Final polish, demo recording, and submission

• Commitment:

I am fully committed to building a working MVP of F0x01in the 2-week capstone window. The concept of self-staking productivity is one I genuinely believe in and plan to use myself. This is not just an experiment, it's a foundational tool I hope to grow and evolve for Web3 learners and builders like me.

• Initials: M