Capstone Letter of Intent (LOI)

II. Project Overview

Capstone Project Name/Idea:
CliffSafe – *"Designed with vesting precision in mind, CliffSafe helps Web3 projects securely distribute tokens over time, protecting both founders and investors."*

Brief Project Description:
CliffSafe is a secure, customizable, and transparent token vesting platform built on the Solana blockchain. It supports both **cliff-based** and **linear vesting** schedules, offering startups, DAOs, and tokenized ecosystems a reliable system to enforce fair, time-locked token distributions. By automating vesting through smart contracts and providing a simple interface, CliffSafe enables projects to avoid premature unlocks, minimize trust assumptions, and uphold long-term commitment to their communities.

Reason for Choosing This Project:
In the rapidly evolving world of token economies, managing token distribution with integrity is a foundational need. Yet, many Web3 projects face challenges with implementing structured cliff and linear vesting, resulting in broken trust, token dumps, and short-lived engagement.

CliffSafe is the solution—a robust on-chain platform that simplifies the implementation of cliff and linear schedules. It prevents early unlocks, supports time-based token streaming, and offers transparency to all stakeholders. Whether ensuring a 6-month cliff before release or gradually unlocking tokens over 2 years, CliffSafe promotes responsible tokenomics and aligns long-term incentives for builders and backers alike.

III. Go-to-Market Strategy

Target Audience:

- **Startup Founders & Core Teams** launching new token projects and requiring vesting for internal allocations (team, advisors, partners).
- **Web3 Projects & Launchpads** that value investor protection, ecosystem stability, and fair release practices.
- **Investors** who demand accountability and schedule-based token delivery as a condition of trust.

Value Proposition:
CliffSafe offers smart-contract-driven **cliff** and **linear** vesting options:

- **Cliff Vesting**: Tokens remain fully locked until a fixed unlock date (e.g. 6-month cliff). After the cliff ends, all tokens are released at once.
- **Linear Vesting**: Tokens unlock gradually over time (e.g. 100 tokens per day for 6 months), starting after an optional cliff.

Marketing and Distribution:

- Educational content (blog posts, Twitter threads, short videos) explaining **the difference between cliff and linear vesting**, and why they matter.

IV. Technical Details

Tech Stack:

- **Blockchain Platform**: Solana
- **Smart Contract Language**: Rust with the Anchor framework
- **Frontend**: React + TypeScript (optional MVP interface)
- **Database**: PostgreSQL (for off-chain metadata and indexing)
- **Smart Contract Development**:
  - Vesting logic built using Rust and Anchor.
  - Supports both **cliff** and **linear** vesting via enum configurations.
  - Fully tested using Mocha/Chai in TypeScript test suite with Anchor's test environment.

V. Conclusion

Project Timeline:
Development and deployment of CliffSafe to Devnet within **2 weeks of completing all live classes**.

Commitment:
I am fully committed to the successful development, testing, and deployment of CliffSafe. This project aligns with my passion for building trustworthy and sustainable infrastructure for the decentralized future.

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