Capstone Letter of Intent (LOI)

II. Project Overview

- **Capstone Project Name/Idea:** Sagent - On-Chain Agent

- **Brief Project Description:** Sagent is a web-based platform that integrates a chatbot powered by a Large Language Model, allowing users to communicate via text or voice notes. Sagent facilitates Solana blockchain-related tasks upon concluding the users requests and user-signed transactions.

- **Reason for Choosing this Project:** I believe the next step to mass adoption for crypto and more incentive to use Solana is making it as easy as possible for anyone to be able to transact on the blockchain swiftly and freely and being able to perform complex tasks and desires on-chain, and with the rise and evolution of LLMs and their usage, an idea like Sagent would be the perfect fit.

III. Go-to-Market Strategy

- **Target Audience:**
  - Crypto Novices: Users that recently got introduced to the concept of Crypto and want to interact with the blockchain without being fearful or confused.
  - Crypto enthusiasts: Users familiar with blockchain and looking for an efficient way to perform transactions and launch projects.
  - Artists: Artists and developers interested in creating or updating NFT collections with minimal technical hurdles.
  - Token Creators:Individuals or teams aiming to launch memecoins or tokens quickly and securely.
  - DeFi Users: Those seeking to manage swaps, trades, and transfers on Solana seamlessly.

- **Value Proposition:**
  - Ease of Use: Intuitive chatbot interface with voice and text options to simplify blockchain interactions.
  - Efficiency: Automated workflows via n8n to streamline tasks, reducing the time and complexity of blockchain operations.
  - Security: Direct integration with browser wallets like Phantom ensures secure transaction signing.
  - Accessibility: Enables users with varying levels of blockchain expertise to interact

with the Solana blockchain confidently.

- **Marketing and Distribution:**
  - Launch social media campaigns targeting Solana and web3 communities on Twitter, Reddit, and Discord.
  - Develop educational content, such as tutorials and walkthroughs, to attract non-technical users.
  - Partner with Solana-focused development communities and NFT marketplaces for cross-promotion.
  - Conduct webinars and workshops demonstrating the platform's capabilities.
  - Explore collaborations with memecoin creators, NFT projects, and blockchain influencers to showcase real-world use cases.

- **Competitive Landscape:** While other blockchain platforms offer tools for specific tasks, Sagent differentiates itself by:
  - Integrating AI to simplify user interactions.
  - Providing a voice-enabled chatbot for seamless communication.
  - Offering end-to-end workflow automation using n8n for diverse blockchain use cases.
  - Focusing on the Solana blockchain to leverage its low fees and fast transactions.

IV. Technical Details

- **Tech Stack:**
  - **Blockchain Platform:** Solana
  - **Smart Contract Language:** Rust/Anchor
  - **Workflow Automation:** n8n
  - **Smart Contract Interaction:** TypeScript
  - **Front-End Framework:** React.js

- **Smart Contract Development:**
  - Rust with Anchor framework will be used for smart contract development, ensuring compatibility with the Solana ecosystem.
  - Testing: Unit testing, integration testing, and security audits will be conducted to ensure the reliability and security of the smart contracts.
  - Formal Verification: Explore the use of formal verification tools to mathematically prove the correctness of the contracts.

V. Conclusion

- **Project Timeline:**
    a. First week - Smart Contract Development
    b. Second and Third week - Front-End and workflow development
    c. Fourth and Fifth week - Connecting the front-end and writing typescript functions for each smart contract instruction.
    d. Sixth week - Final touches of design and functionality
    e. Seventh week - Testing

- **Commitment:** I am fully committed to this project and will work on it as long as it takes within the 8 weeks because it's something that truly interests me, and I feel like I'm completely capable of doing it on time and with all intended functionality and a pretty design, really looking forward to working on this and getting feedback on the idea and progress.
- **Initials:** *KN*