



February Week 2-6 Submission: SuiCompass Protocol

1. Primary GitHub Repository

URL: <https://github.com/x5engine/SuiCompass-Protocol>

2. GitHub Username (Author)

Username: `x5engine` (Youssef Khouidi)

3. Execution Path

- ☒ **Application / backend integration (SDK / RPC / Indexer)**
- ☒ **Tools / infrastructure**

4. Work Completed This Month

- **Sui-Native Architecture Implementation:**
 - After a month of deep research and architectural design in January, we executed the full build of **SuiCompass** this month.
 - Built a custom **AI Intent Engine** from the ground up to parse natural language specifically for Sui DeFi operations.
 - Implemented the **x402 Auto-Stake Agent**, a unique background worker that optimizes yield using real-time RPC data.
- **Advanced UI/UX Engineering:**
 - Designed and coded the "Sui Blue" aesthetic with custom glassmorphism and animations.
 - Integrated **Force-Directed Token Graphs (D3.js)** for institutional-grade asset visualization.
 - Developed a "Persistent Session" wallet provider to solve common UX friction in dApps.
- **Infrastructure & Tooling:**
 - Built a dedicated **Debug Panel** for verifying on-chain state during local development.
 - Created custom CLI tooling for headless interaction with the protocol.

5. Verifiable Technical Evidence




- **Commit: Initial Protocol Architecture**
 - [View Commit on GitHub](#) (Search: "feat: Transform to SuiCompass Protocol")
 - *Evidence of the massive comprehensive build shipped this month.*
- **File: x402 Auto-Stake Logic**
 - [src/hooks/useAutoStakeAgent.ts](#)
 - *Our custom algorithm for yield optimization and balance monitoring.*
- **File: AI & Wallet Integration**
 - [src/components/chat/ChatInterface.tsx](#)
 - *Demonstrates the seamless fusion of LLM intent parsing with `@mysten/dapp-kit` execution.*

6. (Optional) Deployment or Integration Proof

- **Live IPFS Deployment:**

- **Primary:** <https://ipfs.io/ipfs/QmVkJYX8VT1zuVb4mRnKKz2s393XkckKVFzr5NhhcqbQ6i>
- **Backup (Pinata CDN):** <https://indigo-broad-boas-752.mypinata.cloud/ipfs/QmVkJYX8VT1zuVb4mRnKKz2s393XkckKVFzr5NhhcqbQ6i>
- **CID:** `QmVkJYX8VT1zuVb4mRnKKz2s393XkckKVFzr5NhhcqbQ6i` (Accessible via any IPFS gateway)

- **Feature Matrix (Current State):**

-  **DONE:** AI Intent Engine, Portfolio Dashboard, Liquid Staking, Auto-Agent (x402).
-  **DOING:** RWA Tokenization (UI Ready, Contracts WIP).
-  **UPCOMING:** Mainnet Contracts Audit.