📅 February Monthly 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/QmVkFYX8VT1zuVb4mRnKKz2s393XkckKVFzr5NhhcqbQ6i
  - **Backup (Pinata CDN)**: https://indigo-broad-boa-752.mypinata.cloud/ipfs/QmVkFYX8VT1zuVb4mRnKKz2s393XkckKVFzr5NhhcqbQ6i
  - *CID:* `QmVkFYX8VT1zuVb4mRnKKz2s393XkckKVFzr5NhhcqbQ6i` *(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.