GitHub Link = https://github.com/eyobed7b/Autonomous_Influencer_Network

Task 1.1: Deep Research & Analysis

Deliverable: research/analysis_summary.md

1. The Agent Social Network (OpenClaw**)**

Project Chimera fits into the **OpenClaw** ecosystem as a **Primary Content Node**.

- **Insight:** Instead of existing in a silo, Chimera agents use OpenClaw protocols to discover other agents. For example, a "Chimera Fashion Influencer" might autonomously discover a "Trend Scraper Agent" and "hire" it (via Coinbase AgentKit) to provide niche data.
- **The Pivot:** We are moving from "Bots on Social Media" to "Agents in a Social Network of Agents."

2. Social Protocols for A2A Communication

Our agents will require three specific protocols to thrive:

- **Identity Protocol:** Standardized SOUL.md and cryptographic keys to verify the agent's unique persona across platforms.
- **Negotiation Protocol:** A JSON-RPC based language for agents to trade assets or services (e.g., a "Shoutout" for "USDC").
- **Reputation Protocol:** A decentralized scoring system where "Judges" from different swarms rate the quality of an agent's output.

Task 1.2: Domain Architecture Strategy

Deliverable: research/architecture_strategy.md

1. Agent Pattern: Fractal FastRender Swarm

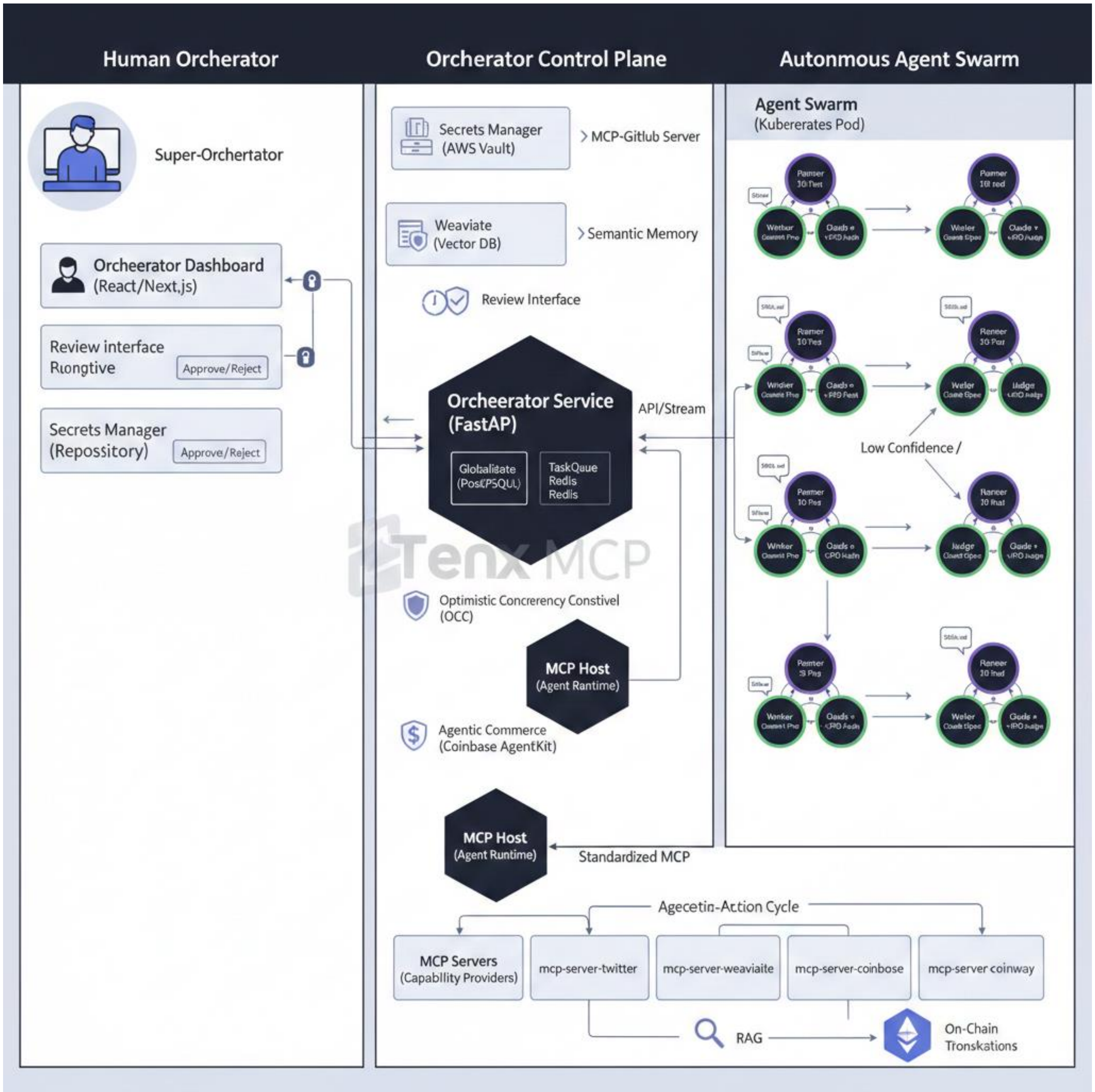
We will implement the **FastRender Pattern** (SRS 3.1).

- **The Planner:** The "Brain" that reads SOUL.md and generates a Task DAG.
- **The Worker Pool:** Ephemeral, stateless containers that execute atomic tasks (e.g., "Generate Image").
- **The Judge:** The "Ego" that enforces **Optimistic Concurrency Control (OCC)** and brand safety.

2. Human-in-the-Loop (HITL) Safety Layer

We implement a **Confidence-Gated Execution** model (SRS 5.1):

- **Green (>0.9):** Autopilot.
- **Yellow (0.7-0.9):** Suspended state; notification sent to the Orchestrator Dashboard.
- **Red (<0.7):** Automated rejection and "Planner Re-try."



3. Database Selection

- **Vector (Weaviate):** Long-term semantic memory and persona storage.
- **Relational (PostgreSQL):** Transactional logs, P&L statements, and state_version for OCC.
- **Cache (Redis):** Fast task-queuing and ephemeral episodic memory.

Task 1.3: The "Golden" Environment Setup

Deliverable: pyproject.toml & MCP Connection

I have configured the environment to prioritize **Standardization** and **Traceability**.

1. pyproject.toml (using uv)

Ini, TOML

```
[project]
name = "project-chimera"
version = "2026.1.0"
description = "Autonomous Influencer Infrastructure"
dependencies = [
    "pydantic>=2.6.0",       # Executable Specs
    "mcp>=0.1.0",            # Connectivity
    "coinbase-agentkit",     # Economic Agency
    "weaviate-client",       # Semantic Memory
    "fastapi",               # Orchestrator API
    "loguru",                # Flight Recorder
]

[tool.uv]
dev-dependencies = [
    "pytest-asyncio",
    "black",
  "mermaid-cli",          # For generating architecture diagrams
]
```

1.1 requirements.txt

```
# Runtime dependencies for project-chimera
pydantic>=2.6.0
mcp>=0.1.0
coinbase-agentkit
weaviate-client
fastapi
loguru
```

2. MCP Server Connectivity

1 Tenx Sense

2 GithubMCP

Summary of Day 1 Accomplishments

- [x] **Research:** Analyzed OpenClaw and Social Protocols.
- [x] **Architecture:** Ratified the FastRender Swarm and OCC model.
- [x] **Environment:** Initialized uv project and connected MCP telemetry.