Bio-Quantum AI Platform: Audit Summary & UI Strategy Preview

1. Claude Agent Audit Summary

Claude Agent Audit Summary - July 2025

Files Reviewed:

- bulk_import_pipeline.py

- notion_sync.py

- photonic_gateway_rl.py

- dna_db_integration.py

- test_sync_system.py

- backlog_task_router.py

- integrated_sync.py

- hldd_integration_mapper.py

- compile_and_open.js

Key Observations:

- Modular structure is sound, but redundant file parsing functions appear in both bulk_import_pipeline.py and notion_sync.py.

- dna_db_integration.py contains promising architecture for cross-strategy embeddings, but lacks error handling around malformed genetic pattern inputs.

- Claude recommends extracting shared agent-specific utilities into agent_utils.py to reduce duplication.

- Integration logic between Notion, HLDD, and backlog sync is strong, but logging can be centralized and more descriptive for audit trails.

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Refactor Recommendations:

1. Create /utils/agent_utils.py with shared routines.

2. Consolidate redundant data transformers across the pipeline.

3. Annotate all sync connectors with task-level UUID tracking.

4. Adopt stricter typing on agent_tasks and role definition files.

Audit Status: In Progress - 85% Complete

2. Grok UI + Strategy Preview

Grok UI + Strategy Builder Preview - July 2025

Component Preview:

- Agent Status HUD with real-time color-coded indicators.

- Claude Insight Panel overlays showing live audit scores per component.

- Strategy Builder: Multi-stage drag-and-drop with policy simulation slot.

- Chat Thread Mapper: Interactive trace of conversation->trade setup path.

- Portfolio AI Lens: Hover-enabled balance review and recommendation tool.

Next Step Suggestions:

- Integrate agent_roles.json to dynamically update HUD.

- Inject audit overlays from Claude directly into visible components.

- Add top nav entry for 'Simulate Strategy' and 'Audit Summary'.

- Refine CSS with soft shadows, rounded transitions, and glassmorphism.

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- Finalize PWA-compatible routing to Grok previews.

UI Status: Design Stable - Awaiting Asset Skin & Review Feedback