

# # Bio-Quantum AI Multi-Agent API Bridge Development Plan

## ## 1. Team Assignments

### ### Richard (CTO)

- Oversee bridge development
- Approve `agent\_roles.json`
- Assign tasks and validate schema

### ### GPT-4o (System Integrator)

- Implement Context Sync Engine
- Endpoints: `POST /bridge/context-sync`, `GET /bridge/context-sync`
- Maintain session memory and history

### ### Claude 3 Opus (Documentation Lead)

- Audit API Bridge code
- Create investor-ready 1-page API spec
- Document architecture and flow

### ### Grok 4 (Dev Agent)

- Scaffold Agent Gateway, File Exchange Hub, Task Queue API
- Endpoints: `POST /bridge/agent-task`, `GET /bridge/files`
- Simulate mock AI logic integration

### ### Manus (Visuals)

- Update demo storyboard with bridge visual

- Highlight multi-agent collaboration

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## ## 2. Node.js/Express API Bridge Implementation (Stub)

- Agent Gateway
- Context Sync Engine
- File Exchange Hub
- Task Queue API
- Security Layer with Rate Limiting

### ### Endpoint Samples:

- `POST /bridge/agent-task`
- `GET /bridge/context-sync`
- `GET /bridge/files`
- `GET /bridge/task-queue`
- `POST /bridge/simulate-ai` (mock AI recs)

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## ## 3. API Schema Summary

- Role-based agent permissions via `agent\_roles.json`
- File metadata tagging (e.g., `tags=["for\_review"]`)
- Real-time shared task queue by agent
- Modular and secure design

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## ## 4. Tier 1 Demo Video Storyboard (Manus)

**\*\*Scene 1\*\***: React dashboard, candlestick chart

**\*\*Scene 2\*\***: API Bridge popup → “Buy AAPL @ \$151.75”

**\*\*Scene 3\*\***: Claude reviewing HLDD, Grok generating code

**\*\*Scene 4\*\***: Outro with logo + investor CTA

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## ## 5. Sprint Plan (3-4 Weeks)

**\*\*Week 1\*\***:

- Implement Gateway + Files endpoints
- UI polish (Framer Motion)

**\*\*Week 2\*\***:

- Add context sync + task queue
- Mock AI logic integration

**\*\*Week 3\*\***:

- Security/code review by Claude
- Update storyboard by Manus

**\*\*Week 4\*\***:

- End-to-end testing
- Final investor pitch + slide deck

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## ## 6. Strategic Recommendations

- Share `Dashboard.js`, `market.js`, `recommendation.py` with Claude
- Deploy bridge to enable collaborative Tier 1 demo
- Highlight AI collaboration in investor narrative

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## ## 7. Next Action Items for Claude

- Produce 1-page PDF API Spec
- Validate HLDD content coverage
- Review security/performance in bridge scaffold