Helix Chat Roadmap and Timeline

Stage 1: MVP with Core Features (End of July)

- Implement real JWT authentication replacing dummy user setup.

- Refactor and modularize backend architecture.

- Establish testing infrastructure with automated unit tests.

- Enhance frontend UI with error handling, loading states, and improved responsiveness.

- Implement basic user analytics tracking.

- Internal MVP deployment and user feedback collection.

Deliverable: Functional MVP with basic authentication, improved UI, and backend stability.

Stage 2: Scaled-Up Version (End of August)

Week 1: • Integrate LoRA-tuned local LLM within tenant VPC.
- Implement vector database integration (Qdrant/Pinecone).
- Begin developing an interactive marketing page for product demonstration.

Week 2: • Setup retrieval-augmented generation (RAG) with internal document embedding.
- Implement SSO authentication with OIDC/SAML (Next-auth).
- Complete initial version of the interactive marketing page and demo.

Week 3: • Develop advanced orchestration layer using YAML-defined agent workflows.
- Add tooling adapters for external integrations (e.g., billing, HR systems).
- Refine interactive marketing page based on initial feedback.

Week 4: • Optimize frontend performance using CDN caching, SSR, and Server-Sent Events.
- Establish continuous nightly fine-tuning pipeline for LLM.
- Finalize and deploy the interactive marketing page.

Deliverable: Scaled-up, performance-optimized version with RAG, SSO, robust orchestration, and interactive marketing page.

Stage 3: First Company Implementation (Yadimen) (September–November)

September: • Deploy platform within Yadimen's private cloud infrastructure (Docker/Kubernetes).

• Tailor LLM using Yadimen-specific documentation and internal knowledge bases.

October: • Implement detailed logging, auditing, and compliance monitoring.

• Initiate usability testing and gather real-time user feedback via Slack and Teams.

November: • Iteratively refine UI/UX and LLM accuracy based on Yadimen user feedback.

• Validate full enterprise scenarios and finalize platform adjustments.

Deliverable: Fully implemented solution in Yadimen environment, meeting compliance and usability standards.

Stage 4: Enterprise Model (December–March)

December–January: • Establish Master-Model Factory layer for large-scale model training and distillation.

• Implement automated safety checks, performance evaluations, and adapter releases.

February: • Integrate advanced regulatory compliance frameworks (SOC2, ISO 27001, GDPR).

• Build comprehensive audit trails with automated reporting.

March: • Implement advanced observability tools (Prometheus, OpenTelemetry).

• Finalize integration across enterprise systems (CRM, ERP, HR).

• Complete multi-channel support (Slack, Teams, Web).

Deliverable: Fully compliant, robust, and scalable multi-tenant enterprise-grade AI chat platform.

Summary of Key Milestones

- **End of July:** MVP Launch

- **Mid-August:** Interactive Marketing Page Demo

- **End of August:** Scaled-up Version Completion

- **End of November:** Yadimen Enterprise Testing Completed

- **End of March:** Final Enterprise Model Ready for Large-scale Deployment