

Shortcomings / Wishlist:

Current Shortcomings/Limitations

Scope Limitations

- The chatbot is restricted to a single object (Harry Clarke's window).
- No cross-object or gallery-wide navigation yet.

Model Limitations

- OhLlama may require additional tuning to match the quality of larger commercial LLMs.
- Some complex art-historical questions may still require curator intervention.

Retrieval Limitations

- Retrieval quality depends heavily on chunking and metadata accuracy.
- Multimodal retrieval (images + text) is basic and could be expanded.

UI Limitations

- Limited personalization or adaptive learning.
- Mobile experience is functional but could be more optimized.

Operational Limitations

- Knowledge base updates require manual ingestion.
- No automated curator approval workflow for new content.

Wishlist/Future Work

Expand Content Scope

- Add 5–10 additional objects from the Wolfsonian collection.
- Enable cross-object comparisons and thematic tours.

Enhance RAG Pipeline

- Add advanced re-ranking models.
- Improve multimodal retrieval using CLIP or similar models.
- Introduce confidence scoring and uncertainty visualization.

Improve User Experience

- Implement personalization (remembering visitor interests).
- Add educator modes for K–12 and university audiences.

Operational Improvements

- Build a curator-facing content management dashboard.
- Automate ingestion, embedding, and validation workflows.
- Add A/B testing for prompt and retrieval strategies.

Long-Term Vision

- Deploy the chatbot in the gallery via QR codes.
- Integrate with museum tours, audio guides, or AR experiences.
- Evolve into a museum-wide conversational interpretation platform.