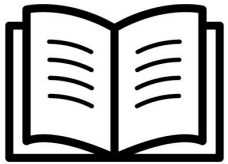


PapyrusChat

An AI Agent Chatbot for **paper** books

The Problem

Paper books aren’t digital

PapyrusChat Process

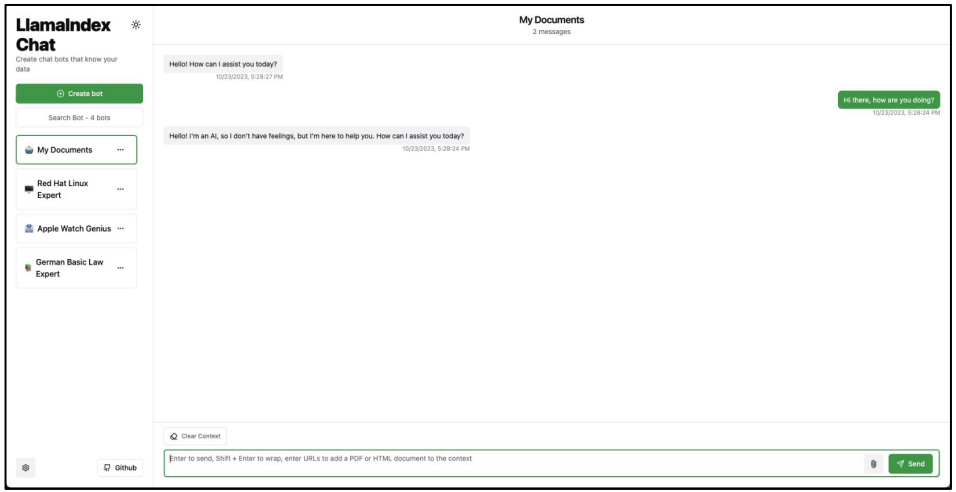
1. **Record a video flipping through pages of your favorite book**
2. **Upload the video to the BookQA Agent**
3. **Wait**
4. **Talk to your Book through the Agent.**

Potential Use Cases (Thanks GPT4)

- **Semantic Search Engines:** Create search engines that understand the context of queries and content, providing more relevant search results for academic papers, literature, or specific topics.
- **Content Recommendation Systems:** Recommend similar books or articles to readers based on the semantic similarity of their contents, enhancing user experience in digital libraries and online bookstores.
- **Digital Humanities Research**: Facilitate research in the humanities by allowing scholars to discover thematic or stylistic connections between different texts, authors, or historical periods.
- **Legal Document Analysis:** Analyze legal documents to find precedents, similar cases, or relevant laws by understanding the semantic content of legal texts.
- **Machine Learning Training Data**: Use the vectorized text as training data for machine learning models to perform tasks like sentiment analysis, topic modeling, or language generation.
- **Automated Summarization:** Generate concise summaries of books or documents by identifying and condensing the most relevant sections or topics.
- **Text Clustering**: Group similar documents together to organize large collections of texts, making it easier to manage and navigate digital archives.
- **Language Learning Tools**: Develop applications that help language learners find reading material that matches their proficiency level and interests by analyzing the complexity and themes of texts.
- **Plagiarism Detection**: Detect plagiarism by comparing the semantic fingerprints of texts, useful in academic, publishing, and content creation settings.
- **Historical Document Analysis**: Uncover patterns, trends, and insights from historical texts, aiding historians and researchers in their study of the past.
- **Cross-Language Information Retrieval**: Enable users to search for content in one language and find relevant results in another, leveraging cross-lingual semantic understanding.
- **Interactive Educational Resources**: Create interactive learning materials that adapt to the user's interests and understanding, dynamically suggesting related topics or readings.
- **Cultural Analytics**: Analyze cultural trends and influences over time by comparing the themes, styles, and topics prevalent in literature across different epochs.
- **Genealogical Research:** Help researchers trace family histories by searching through digitized historical records and documents for names, places, and events.
- **Customer Support Automation**: Improve customer support by finding relevant solutions and answers from manuals or documentation based on the customer's inquiries.
- **Mental Health Support:** Analyze personal journals or writings to detect patterns that may indicate mental health issues, providing tools for therapists and patients.
- **Script Analysis for Film and Theater**: Compare scripts to find similarities in themes, dialogue, or structure, aiding in the analysis of genres or playwright styles.
- **Literary Analysis Tools**: Provide tools for literary analysis by identifying motifs, themes, and stylistic features in texts, supporting both education and research.
- **Trend Analysis in Publishing**: Identify emerging trends in literature and publishing by analyzing themes, genres, and authorship patterns in recent publications.
- **Automated Fact-Checking**: Verify claims made in non-fiction texts by cross-referencing with a database of fact-checked information and reputable sources.
- **Intellectual Property Management**: Assist in copyright and trademark management by identifying unique text passages, phrases, or concepts within a vast database of registered works.

Technical Details

Upload Video → Key Frame Extraction → Multi-Modal LLM Performs OCR → Embed Text in Milvus → Q&A Query Milvus



LlamaIndex

milvus

Demo