

Document Chatbot Project - Sample Test Topic

Topic: Advantages of Document-Based Chatbots using Google AI (Gemini)

This document explains the use of Document-Based Chatbots with integration of Google Gemini AI.

Key Benefits:

1. Document Understanding: By extracting content using Apache Tika, the bot understands user-uploaded PDFs or TXT files.
2. Hybrid Answering: Simple questions are answered using local document text matching. For complex queries, Gemini AI is invoked.
3. Cost Efficiency: This approach avoids unnecessary API calls to reduce token usage and cost.
4. Integration Flexibility: Spring Boot backend handles document parsing and API logic. Angular frontend offers real-time chat interaction.
5. Scalable Design: You can add multiple documents, context filtering, or even semantic embeddings in future.

Real-life Use Cases:

- HR Chatbots for Employee Handbooks
- Legal FAQ Document Assistants
- University Admission Chat Assistants

Test Idea: Ask questions related to the topic above. Some will be answered locally, and others via Gemini AI.

Sample Questions:

- What is the benefit of hybrid chatbot architecture?
- How does the chatbot choose between local match and Gemini?

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- Mention a real-world example where this chatbot is useful.