

Generative AI Developer Intern – Screening Task

Altibbe Health Pvt Ltd – Empowering Humanity with Virtuous Technology





Task Overview

Problem-solving skills

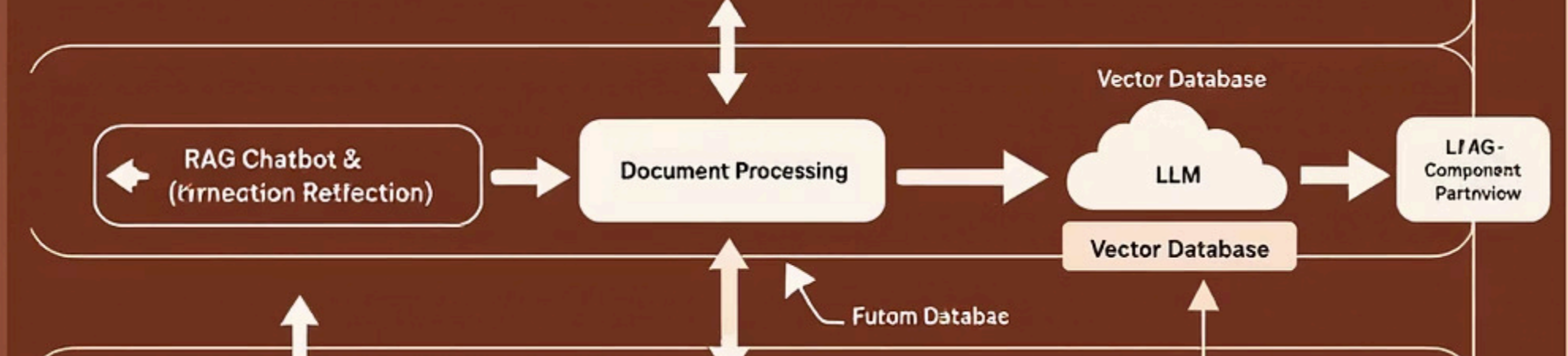
At Altibbe, we champion not just technical brilliance but also the virtues that make innovation responsible, ethical, and impactful. This task will assess your **problem-solving skills, technical proficiency, and alignment with our values.**

RAG-powered FAQ chatbot

You are to build a **Retrieval-Augmented Generation (RAG)-powered FAQ chatbot** using **n8n**, showcasing your grasp of generative AI, workflow automation, and real-world implementation.

Deadline

 **Deadline: 24 hours from assignment** – a challenge that tests both efficiency and diligence.



Task Requirements

AB

Input

Accept user questions via a web form or API endpoint.



Output

Generate accurate, relevant, and ethically framed responses using an LLM.



Processing

Retrieve relevant context from provided documents using RAG methodology.



Integration

Use **n8n** as the primary workflow orchestration tool, ensuring transparency and modularity.

Technical Specifications



Document Processing

- **Supported Formats:** PDF, text, markdown.
- **Embedding Generation:** Use any embedding model (OpenAI, Hugging Face, or local).
- **Vector Storage:** Pinecone, Chroma, or Weaviate.
- **Chunking Strategy:** 500–1000 tokens.



RAG Implementation

- **Retrieval Component:** Semantic search with top 3–5 relevant document chunks. Include similarity scores for transparency.
- **Augmentation:** Combine retrieved context with user query. Format prompt for optimal LLM performance and clarity.
- **Generation:** Use OpenAI API, Anthropic, or open-source models (Llama, Mistral). Include source attribution in the response.



n8n Workflow Design

- **Trigger Node:** HTTP webhook or form submission.
- **Processing Nodes:** Query preprocessing (cleaning, validation). Vector search execution. LLM API call. Response formatting.
- **Error Handling:** Implement graceful fallback responses.
- **Logging:** Track queries and responses for debugging and transparency.

Deliverables



n8n Workflow File

rag-chatbot-workflow.json with complete configuration and inline comments.



Code Components

Any custom JavaScript/Python functions used. API integrations or vector DB setup scripts.



Setup Instructions

Prerequisites and dependencies. Step-by-step setup. Environment variables. Testing procedures and sample queries.

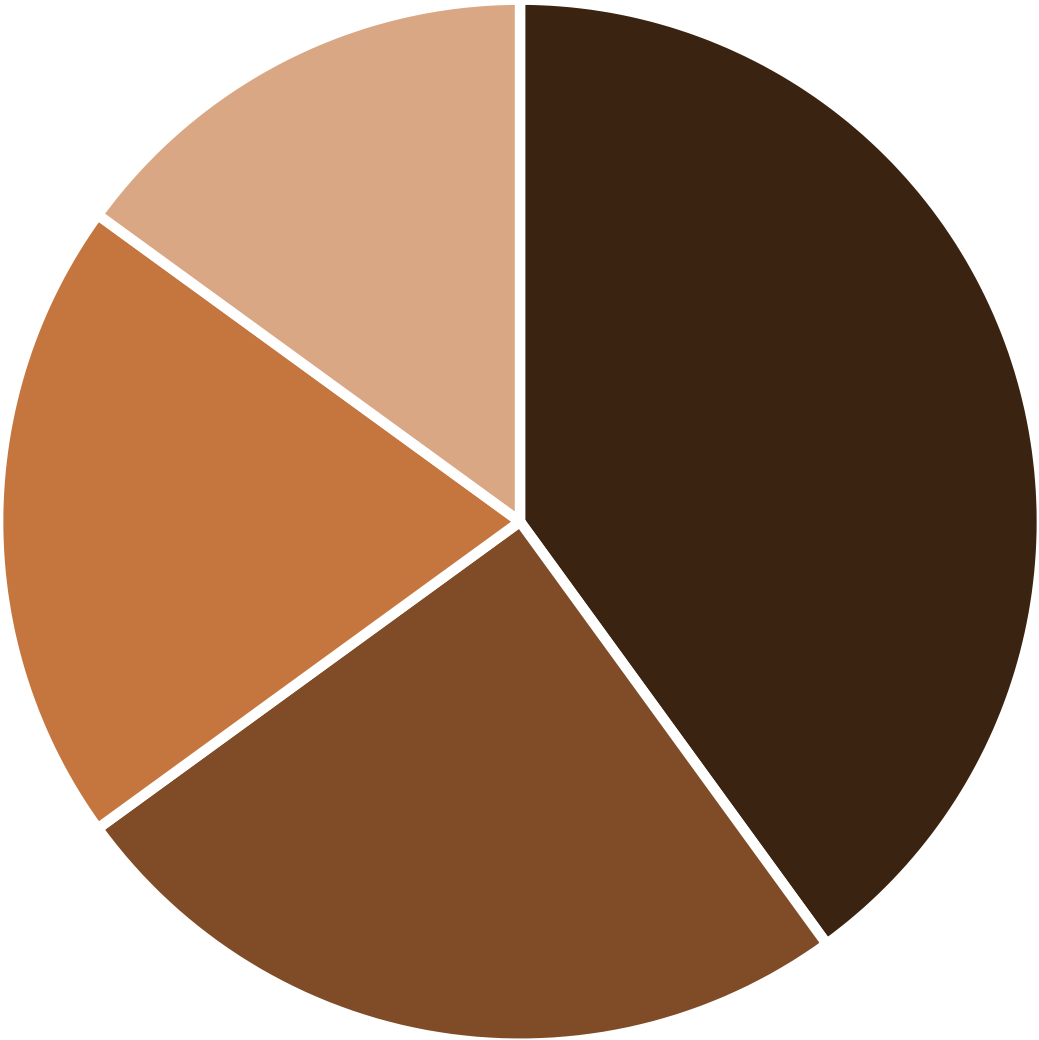


Technical Documentation

RAG implementation approach and rationale. Challenges faced and solutions implemented. n8n workflow design decisions. Performance considerations. Ideas for scalability and improvements.



Evaluation Criteria



- Technical Implementation
- Code Quality
- Innovation & Problem Solving
- Communication

Technical Implementation (40%): Functionality per specs. RAG relevance and accuracy. n8n integration and orchestration. Error handling.

Code Quality (25%): Structure, readability, modularity. Documentation and comments. Best practices and conventions.

Innovation & Problem Solving (20%): Creative solutions. Efficiency and optimization. Additional features beyond core requirements.

Communication (15%): Clear, professional documentation. Explanation of design decisions. Problem analysis and trade-offs. Well-organized deliverables.

Virtues of Skill

Integrity

Honest, accurate outputs and code.

Wisdom

Responsible AI development, balancing innovation with accountability.



Humility

Learn, refine, and grow.

Empathy

User-friendly design that respects the end-user.

Diligence

Thorough testing and error handling.

At Altibbe, we believe that technology should reflect the best in us.

Bonus Points



Multi-modal support

Images, tables



Conversation memory

Across queries



Real-time indexing

And updates



Query analytics

Dashboard



Multiple LLM support

Custom UI



Webhook integrations

Slack, Discord




Response caching

For efficiency

Submission Guidelines

Deadline & Format

 **Deadline:** 24 hours from assignment. Early submissions encouraged!

 **Format:** GitHub repository (preferred) or ZIP file.

Project Structure

```
rag-chatbot-project/  
├── workflows/  
│   └── rag-chatbot-workflow.json  
├── scripts/  
│   ├── setup.py  
│   └── utils.js  
├── docs/  
│   ├── README.md  
│   └── technical-approach.md  
├── data/  
│   └── sample-documents/  
└── tests/  
    └── sample-queries.json
```



Submission Checklist

Core functionality implemented and tested. n8n workflow imports successfully. Documentation complete and accurate. Code follows best practices. Handles edge cases responsibly. Acceptable performance. Security considerations addressed.

Support & Questions

✉ Email: people@altibbe.com

☎ Phone: 9866133639



Final Note

This task is an opportunity to demonstrate not just your technical competence, but your commitment to responsible, virtuous, and impactful AI development.



Technical Excellence

Showcase your skills



Ethical Approach

Demonstrate responsibility



Meaningful Impact

Create virtuous technology