

Task: Build a Mini PDF Q&A App using OpenAI API (Next.js)

As part of the next step in our evaluation process, we'd like you to complete the following technical task. This will help us assess your backend and full-stack development skills, especially with regard to working with APIs, and integrating external services.

Objective

Build a mini application in Next.js where a user can upload a PDF file and then ask questions based on its content using the OpenAI API.

Task Requirements

1. Backend

- Create a protected API routes in Next.js
- Route 1 should:
 - Accept a PDF file upload.
 - Process and store the PDF's content (text extraction).
 - Generate vector embeddings using OpenAI API.
 - Store these embeddings using any vector database
- Route 2 Should
 - Handle question input and return answers based on the PDF content using OpenAI's retrieval-based approach (RAG).

2. Frontend

- Simple UI to:
 - Upload a PDF.
 - Enter questions.
 - Display answers from the backend.
- The frontend should call the protected backend route securely.

Submission

- Submission is only valid for 24 hours
- Share a GitHub repo or a zip file with your code.
- Include a short README with setup instructions and a quick explanation of your approach.