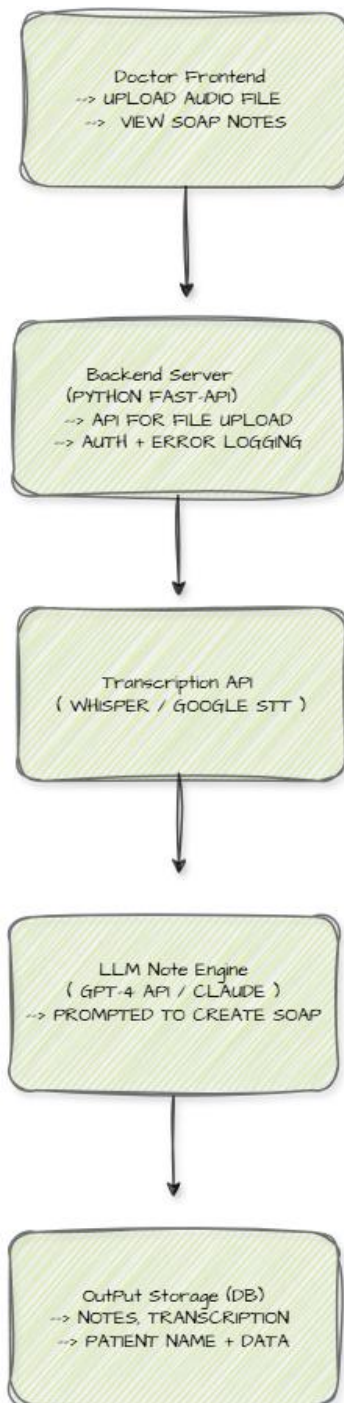


## AI- Scribe Sample Architecture:



SAMPLE ARCHITECTURE DESIGN FOR AI SCRIBE

## **AI- Scribe Roadmap:**

### Step 1: Planning & Setup:

- Define scope: Focus on recording doctor speech, transcribing it, and generating SOAP notes using an LLM.
- Set up development environment: Git repo, cloud services (e.g., AWS/GCP), choose tech stack.
- Prepare sample GI/obesity consultation audio/text data.

### Step 2: Transcription Module

- Use OpenAI Whisper or Google Speech-to-Text API.
- Test with a few short clinical audio recordings.
- Output plain text from voice reliably.

### Step 3: AI Note Generator

- Build prompt templates for SOAP note generation.
- Connect transcription output to GPT-4 or Claude to convert into structured SOAP format.
- Ensure medical terminology is retained.

### Step 4: Minimal Web UI

- Build a simple frontend using React:
- Upload audio file.
- Display transcription.
- Show AI-generated SOAP note.

### Step 5: Integration & Testing

- Connect frontend to backend via API (FastAPI or Flask).
- Run E2E tests with 3–4 real-world consultation recordings.
- Validate note quality and accuracy.

### Step 6: Polish & Security

- Add basic authentication (email/password).
- Implement data encryption at rest and in transit.

### Step 7: Demo & Feedback

- Conduct demo with target doctors or stakeholders.
- Collect feedback.
- Log bugs or issues for future sprints.