**Project Title**

**AI-Powered Meeting Notes Summarizer & Sharer**

**Objective**

Allow users to upload meeting transcripts, generate AI summaries, edit them, and send via email.

**Tech Stack**

* **Backend:** Python, FastAPI
* **Frontend:** React + basic HTML/CSS (minimal design)
* **LLM:** OpenAI GPT-4o-mini (fallback to GPT if unavailable)
* **Email:** Resend API / SMTP fallback
* **Environment Management:** Python venv, .env for keys
* **Deployment:** Any cloud (Vercel, Render, Railway) for frontend, backend hosted on any server or local

**Process**

1. User uploads a transcript or pastes text.
2. Optional: Enter a custom instruction for summarization.
3. Backend sends the transcript + instruction to OpenAI GPT API.
4. Receives structured summary in Markdown.
5. User can edit summary on frontend.
6. User enters recipient email(s) and sends summary via Resend or SMTP.

**Features Implemented**

* Transcript upload / text input
* Custom instruction for summarization
* AI-generated structured summary
* Editable summary
* Email sharing via Resend API
* Fallback if LLM fails

**Testing**

* Backend running at http://localhost:8000
* Frontend running at http://localhost:3000
* POST /summarize/ → returns structured summary
* POST /send-email/ → sends summary email

**B. Deployed Link**

* Deploy frontend (Next.js/React) on **Vercel**
* Deploy backend (FastAPI) on **Railway / Render / Heroku**
* Test deployed link before submission

**C. GitHub Repo Structure**

ai\_summarizer/

├─ backend/

│ ├─ main.py

│ ├─ requirements.txt

│ └─ .env (NOT pushed to GitHub)

├─ frontend/

│ ├─ package.json

│ ├─ src/

│ └─ public/

├─ README.md