

## 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
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## B. Deployed Link

- Deploy frontend (Next.js/React) on **Vercel**
  - Deploy backend (FastAPI) on **Railway / Render / Heroku**
  - Test deployed link before submission
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## C. GitHub Repo Structure

ai\_summarizer/

├─ backend/

| └─ main.py

| └─ requirements.txt

| └─ .env (NOT pushed to GitHub)

├─ frontend/

| └─ package.json

| └─ src/

| └─ public/

└─ README.md