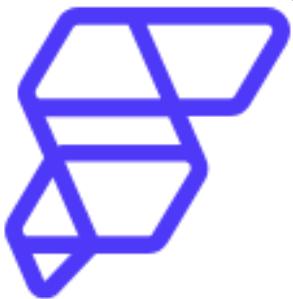


Audio Transcription

Quick Short
Project

FlutterFlow



OpenAI API

Project Four

Audio Transcription project is a utility tool built with  FlutterFlow and powered by the  OpenAI Transcription API

Its purpose is to provide immediate and accurate text transcription by converting uploaded audio files (like voice notes or interviews) into clean, readable text, demonstrating simple integration of low-code UI and advanced speech processing

1. Context and Overview

The AI Voice Transcription Assistant is a real-time utility tool that accurately converts spoken audio into text instantly. It integrates **FlutterFlow** (low-code UI) with the **OpenAI Transcription API** (supporting formats like mp3, wav, and webm). Users simply upload an audio file and immediately receive a clean, readable text output, showcasing seamless low-code integration for voice-to-text solutions.



2. Inside the OpenAI documentation

Audio Models Overview (Short Explanations)

- Build Voice Agents : AI systems capable of listening, speaking, and responding in real time using natural voice interaction.
- Transcribe Audio: Converts spoken audio into written text with high accuracy. Useful for subtitles, meeting notes, or voice-to-text applications.
- Speak Text :Generates natural-sounding speech from any written text.

API Types (Short Explanations)

Real-Time API

Allows bi-directional audio streams for live conversations (voice agents, assistants, etc.).

Speech API

Converts text back into audio (text-to-speech), enabling "speaking" agents

Transcription API

Used to convert audio files into clean, readable text. This is the API used in this project.

Chat Completion API

Traditional text-based interaction. Useful for turning transcriptions into structured answers, summaries, etc.

Norms & Formats

- Audio inputs:** mp3, mp4, mpeg, mpga, wav, webm
- Outputs:** plain text, JSON, SRT (subtitles), VTT (captions)

This is ideal for:

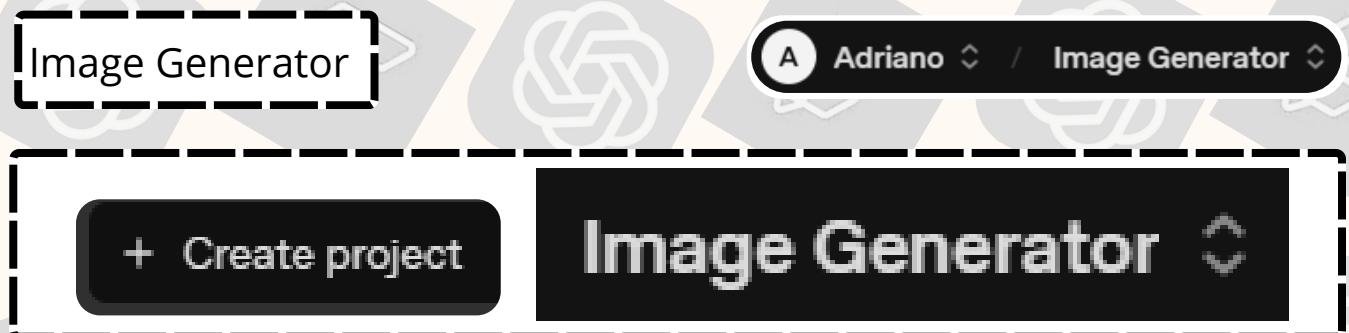
- Voice notes
- Interviews
- Class recordings
- Short audio questions
- Transcribing user messages inside apps



3. Creating the Project and API Keys

In the OpenAI dashboard

Create the project named



Generate an API Key

The screenshot shows the 'API keys' section of the OpenAI dashboard. It features a large key icon and the text 'API keys'. To the right, a red starburst icon with the text 'Don't Share your API Key' is displayed. Below this, a table lists a single API key:

NAME	STATUS	SECRET KEY	CREATED	LAST USED
API_KEY_IMAGE_GENERATOR	Active	sk...h4IA	2 de dez. de 2025	Never

Store the key securely (Flutterflow → variables)

The screenshot shows the 'Variables' section in Flutterflow. A variable named 'API_KEY_IMAGE_GENERATOR' is defined with the following properties:

- Name: API_KEY_IMAGE_GENERATOR
- Type: String
- Is List: False



4. Applying the Project “Audio Transcription” in

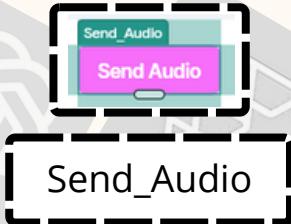
FlutterFlow



Container



Button

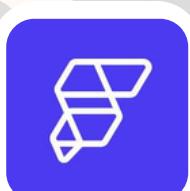
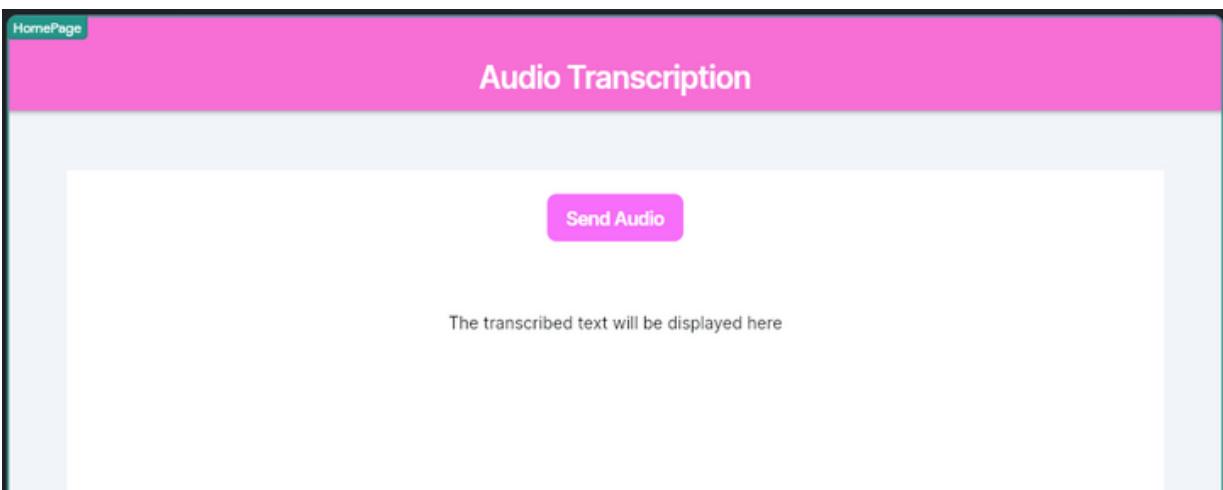


txt_answer

Answer

txt_answer
The transcribed text will be displayed here

Preview



5. Creating the API Call

In FlutterFlow

New API Call

Name: "Audio Transcription Call"

Set as POST

Add headers:

- Content-Type: multipart/form-data
- Authorization: Bearer [API_KEY_Audio_Transcription]

Headers

Content-Type: multipart/form-data
Authorization: Bearer [API_KEY_Audio_Transcription]

Create variables

Variables		
Name	Type	Is List
API_KEY_Audio_Transcription	String	False
variable_file	Uploaded File	False

- API_KEY_Audio_Transcription → string
- PROMPT → Uploaded File (input from user)

In Multipart Body, add:

the OpenAI API doc

Speech to text
Quickstart

```
curl --request POST \
--url https://api.openai.com/v1/audio/transcriptions \
--header "Authorization: Bearer $OPENAI_API_KEY" \
--header 'Content-Type: multipart/form-data' \
--form file=@/path/to/file/audio.mp3 \
--form model=gpt-4o-transcribe
```

Body

Multipart

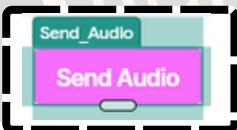
File Binders

Name	Value Source	Select Variable
file	From Variable	variable_file

- Multipart Body:** The API Body is set to Multipart, which is the required format for transmitting binary files (like audio) instead of standard JSON text.
- Key Parameters:** It defines two essential fields: file (linked to variable_file) to pass the dynamic audio content, and model (set as a specific String) to specify the AI engine.

6. Applying the Image Generator API Inside the App

In the "Send Audio" button:



Add Action → API Call

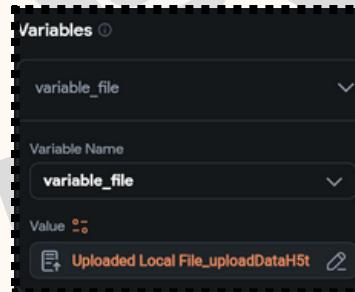
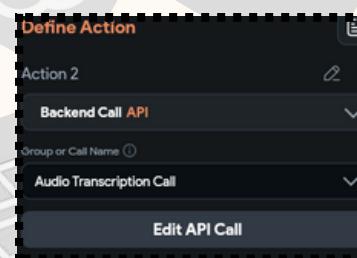
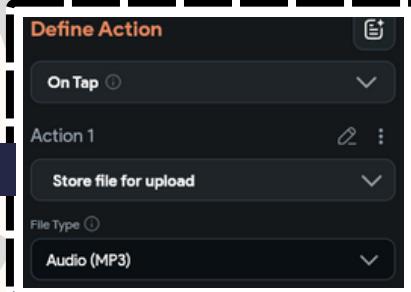


On Tap
3 actions

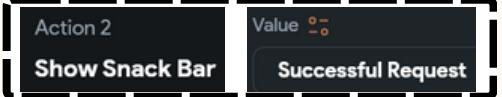
Define Action → Action 1 →

Upload Data > Upload/Save File

File Type → Audio (MP3)



On Success → Show Snackbar "Successful Request"



On Error → Show Snackbar "Error Detected"



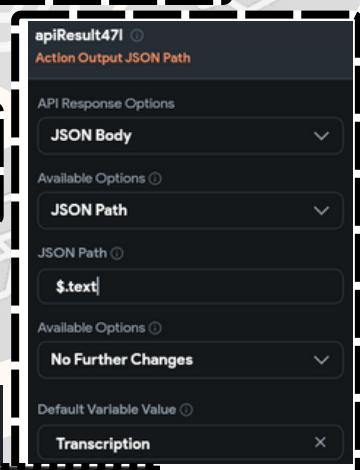
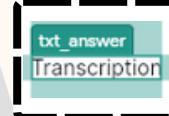
On the answer container:

- Set the text to show the API variable "Result"

Testing

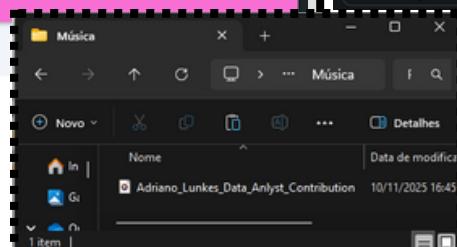


Send Audio File



Audio Transcription

Hello my name is Adriano and this is a test



7.

Conclusion

The Audio Transcription project demonstrates how to

- Use the OpenAI Speech API to convert audio into text
- Upload audio files directly from Flutterflow
- Handle API responses and display transcriptions in a clean interface
- Understand the broader audio ecosystem including real-time, speech, and transcription capabilities

The Audio Transcription Project is a practical, fully functional example of how low-code development (FlutterFlow) + advanced AI (OpenAI Speech API) instantly unlocks the ability to convert spoken audio into accurate text without managing complex backend infrastructure, making sophisticated voice-to-text applications—for interviews, notes, or commands—accessible to anyone in minutes.

