

Voice Journal App

Overview

The **Voice Journal App** is a simple app where users can record or upload their voice journals. It has two main panels:

- **User Panel:** For users to record, upload, and manage their voice moments.
- **Admin Panel:** For admins to view statistics, user behavior, and storage usage.

1. User Panel

Main Features

- Users can **sign up, log in, and log out.**
- Users can **upload or record** their voices.
- For testing, users can upload **up to 5 minutes of audio.**
- Supported formats: .mp3, .wav, .m4a etc.
- Users can **create, delete, and view** their audio journals.
- Users can **filter and categorize** their journals as:
 - Daily Journals
 - Best Moments
 - Other custom categories

EXTRA: Transcription and Summary (Optional)

- This is an optional feature for developers who wish to add more functionality.
- Each uploaded audio can be processed through the **Google Gemini Audio API**.
- It can automatically generate a **text transcription and a short summary**.
- These can be shown with the audio in the user panel if implemented.

Reference: [Google Gemini Audio API Docs](#)

2. Admin Panel

Main Features

- Admins can see:
 - Total number of users
 - Total audio files uploaded
 - Total storage used
 - Estimated storage cost (based on \$0.1 per GB)
- Admins can check:
 - What types of audio formats users are uploading

- Which categories are most used
- Average duration of uploaded audios
- Admins can also see the list of all users and their upload activity.

3. Technical Details

- **Frontend:** React.js or Next.js
- **Backend:** Node.js (Express.js)
- **Database:** MongoDB or PostgreSQL
- **Storage:** AWS S3 or Google Cloud Storage or any free cloud storage.

4. Security

- JWT-based authentication for users and admins
- File validation (format and duration)