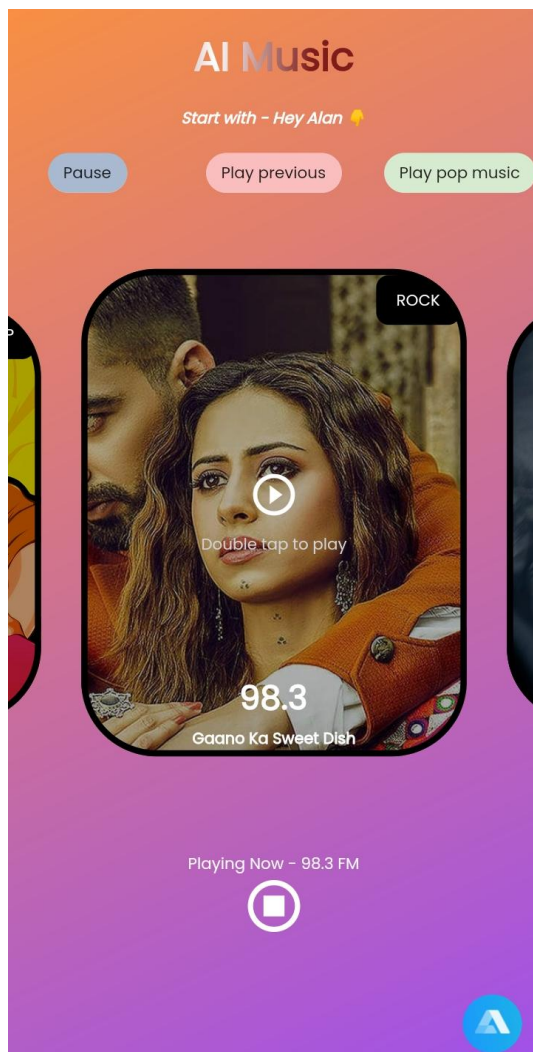


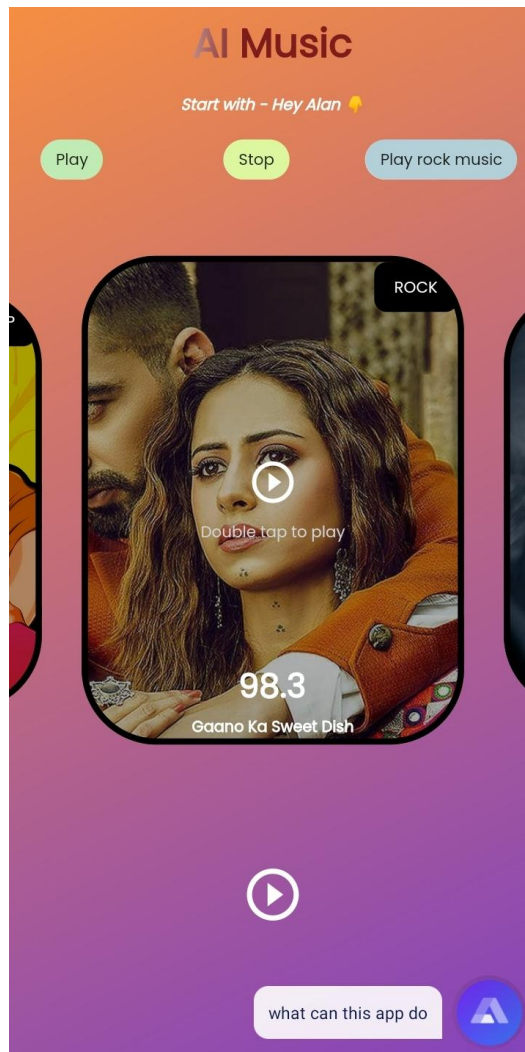
# AI Radio App

[GitHub link](#)

**About APP:** This App is a AI based Radio player app and this app used the radio channel to play the song. These radio channel has been deployed on heroku.

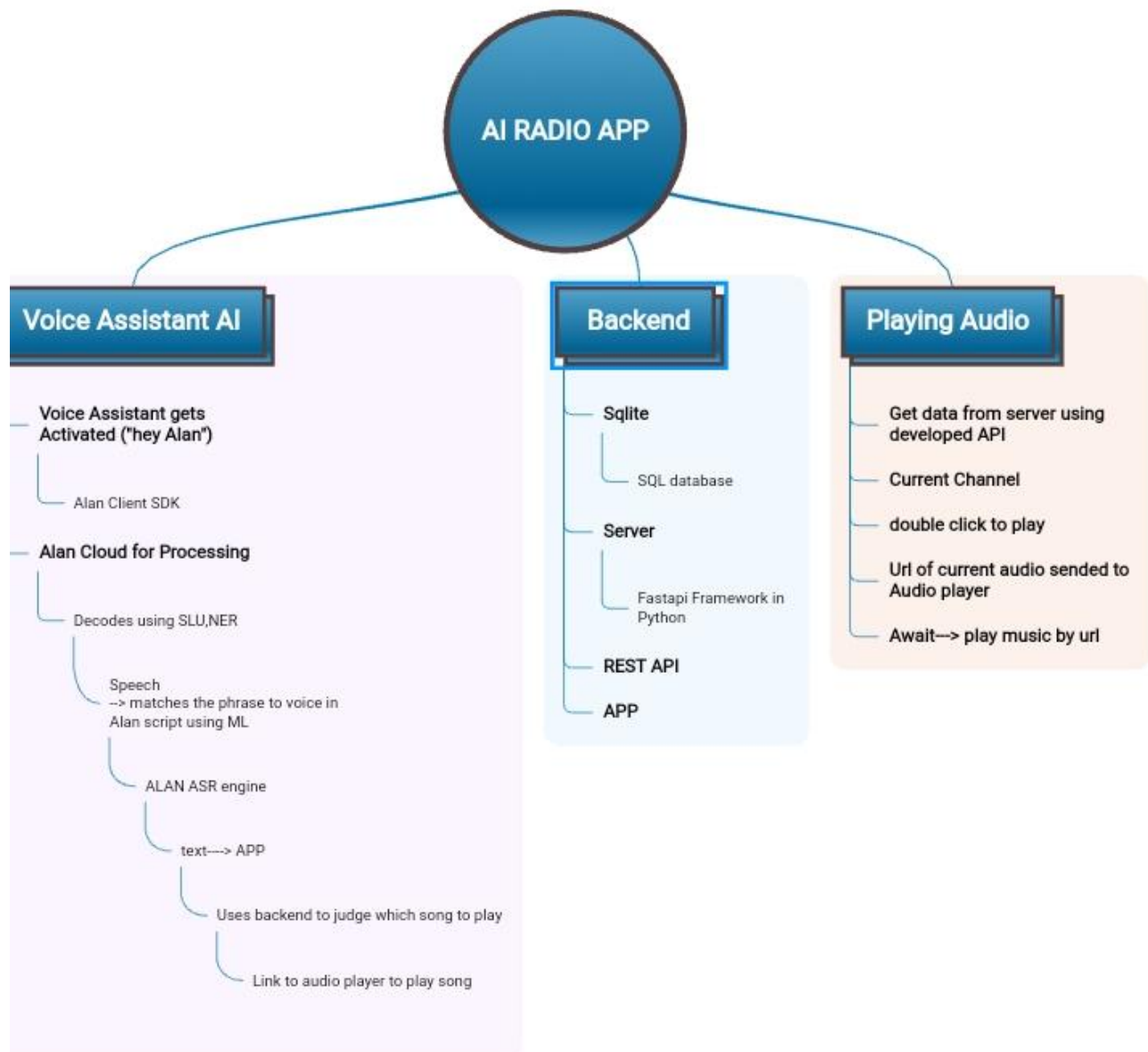


**Fig1.** Basic App layout



**Fig2.** App while using Voice Functionality

## System Design/ Workflow of App:



## Implementation of AI functionality:

I have used the **API of ALAN** to understand and comprehend the voice command that the user tells. This is an **open source API** that is used in the backend and hence after just getting the API endpoints we will just use them in the code.

I have used an open source library to reduce the effort and use a highly accurate open source model which would have better accuracy and also reduce the noise from

the background and hence efficiently improve itself by time. Hence I preferred to use this in the backend

For developing the front end I have used velocity x (**VelocityX** is a 100% free Flutter open-source minimalist UI Framework built with **Flutter SDK** to make Flutter). The front end just receives the API Endpoints and then plays the music according to the data received from the backend.

## Backend REST API:

I've used **fastapi** (which is one of the best frameworks in python) for creating **REST API** and for database, I've chosen to go with **sqlite database**.

There are two API endpoints in server:

- 1) "https://imbesideyou.herokuapp.com/"
- 2) "https://imbesideyou.herokuapp.com/api/get\_data"

Second one is to provide Radio data upon calling which is required by our flutter application to play songs.

## Database:

I've chosen to go with sqlite database because it was sufficient for our app.

Database contains a table, "Radio", which contains following fields

id INTEGER PRIMARY KEY,  
name VARCHAR(10),  
tagline VARCHAR,  
color VARCHAR(15),  
desc VARCHAR,  
url VARCHAR,  
icon VARCHAR,  
image VARCHAR,  
lang VARCHAR(10),  
orders INTEGER,  
category VARCHAR(20)

Deployment:

I've used **Heroku** for deploying our REST API server.

**Thank You!!**