Talk Instruction Application

Project Description:

The purpose of this application is to allow users to do operations on their command using speech to text. The main task was to take speech to text API and then transcribe user command and turn on/off the flashlight on that basis

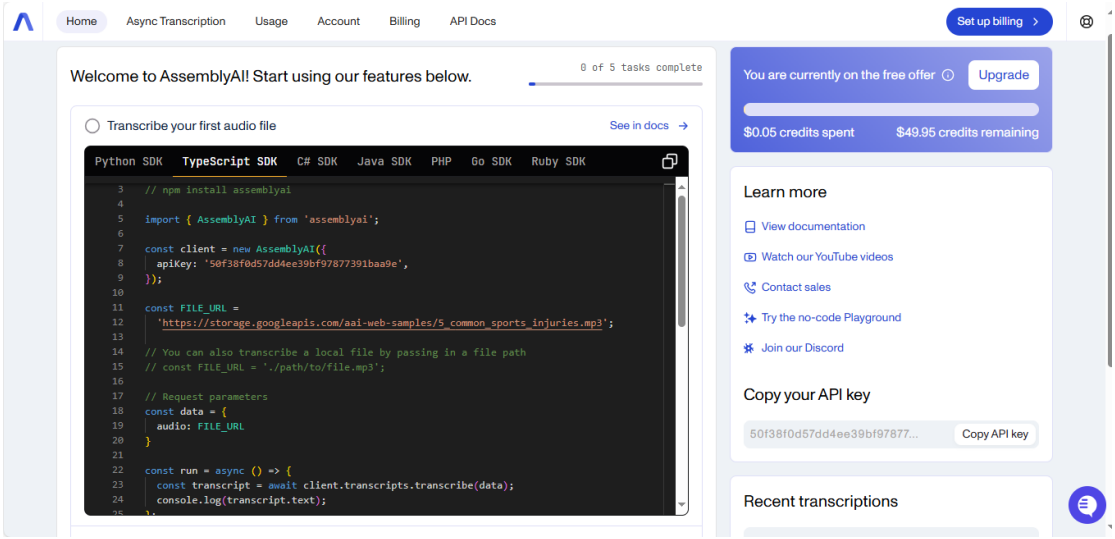
Technology Stack:

1. React Native Expo (Building UI of Application)
2. Fire Base Storage (Store the audio Commands of the user and provide public URL)

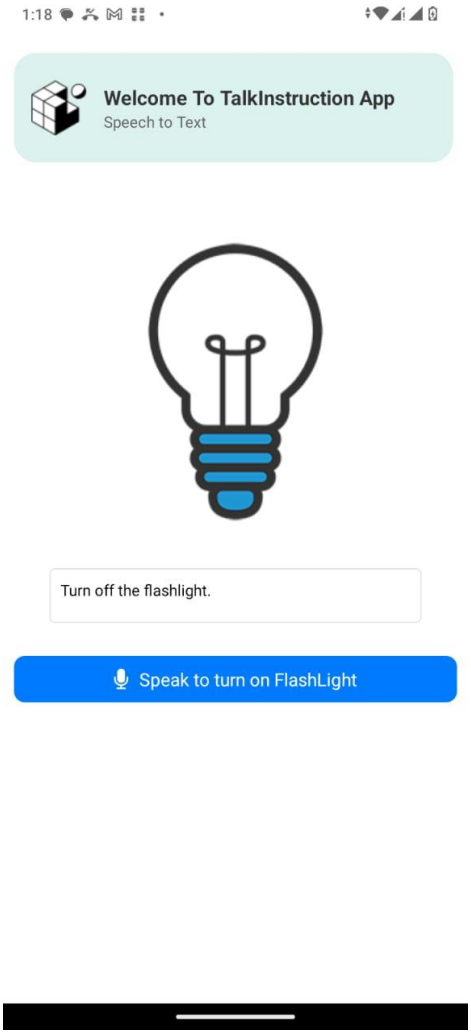
API USED:

- ✓ AssemblyAI Free Trial ($50 Credit)
- ✓ API Used: Transcribe an Audio File

Following Figure shows the documentation and usage of the API:



Application Screenshot:

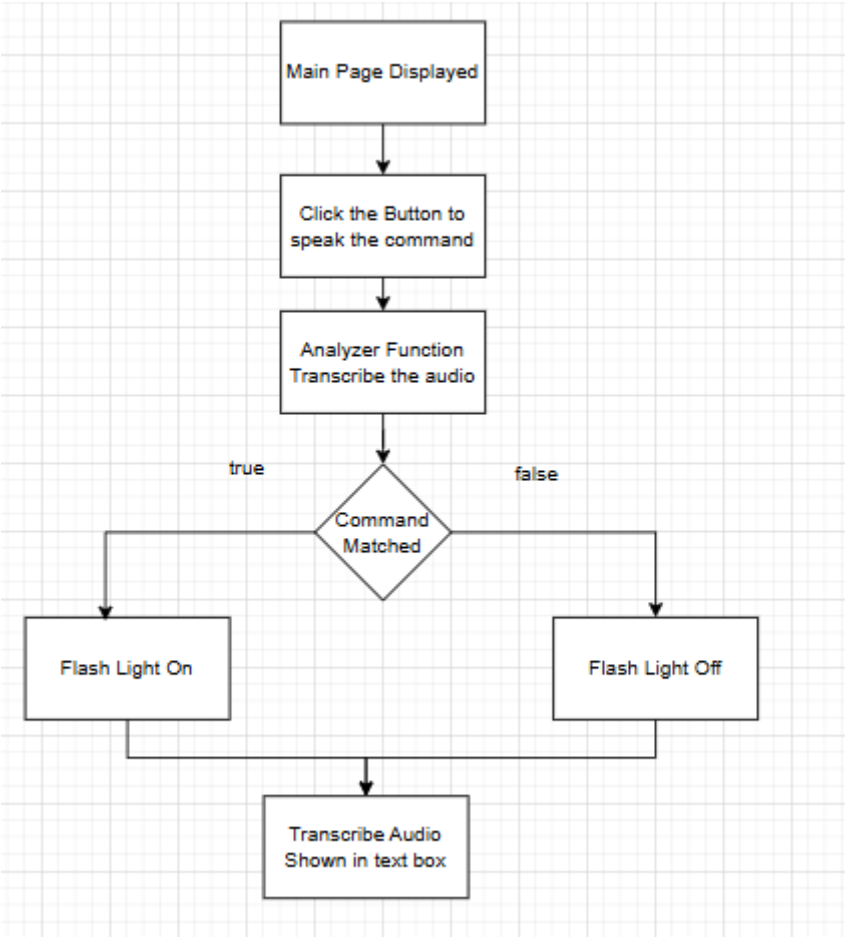


Why don't Google Speech API:

- My Credit was over due to excessive use of Maps and direction API
- My bank account was also not working for this
- Assembly AI give $50 credits that's why I choose that

Application Workflow:

Following is the of the Application Workflow:



Challenges:

- React Native Expo don't support that to turn on torch of your mobile directly
- It always needs camera to be there
- So, if we eject from expo go and use CLI there is library called React Native torch which is not supported now on Android and not maintained from 4 years of now
- There is also a library called React native/voice which will do the same the assembly ai is doing but also, we must eject our application, and this library is old and not maintained

Why we use Firebase Storage:

- So, the assembly ai can not be directly called without node.js or any backend framework so we used fetch here and it receive video URL in the global form which is available globally so that's why we have to store it on the storage