### **Application Overview**

The application is designed to assist users in improving their conversational English by recording daily conversations, analyzing them, and providing feedback with improved versions and explanations.

Platforms: PC & Mac, iOS & Android

Preferred API: RESTful

### **Core Functionality & Workflow**

* Account management:
  + Log in, sign up, sign out
  + Contact us, feedback
* Privacy Configuration: Users choose privacy settings
  + Automatically send or require permission
  + Permanently store in server, delete after 30 days, delete after 7 days, or immediately delete
* Voiceprint Recognition:
  + Users initially record their voiceprint to enable the server to recognize.
* Recording: Users can choose from two methods to record conversations:
  + User choose recording ways
    - Stream Record: Continuously records in the background. (Low Priority)
    - Timed Record: Starts recording for a predetermined duration, e.g., 1 hour, suitable for meetings or specific conversations.
  + Recording Post-Process: delete recording lower than 30dB(soft whisper)
* Feedback:
  + After recording, users can access their conversations, presented as naturally separated records.
  + Users select a conversation to review, he can replay the audio and select to delete or permit transmitting
  + After the conversation is analyzed, feedback is provided under each dialogue piece, including:
    - The original text and audio separated by speaker.
    - The text and audio of the improved version.
    - When clicking on the improved text, a brief explanation of why the suggested changes are improvements.
* Technical Information Collection:
  + Log frequently
  + Consistently collect technical information and send back to server

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### **Additional Requirements**

* Privacy and Security: Able to talk with the server in a private and secure way. Also encrypted locally.
* Performance: Prevent energy hog, some of the tasks could be processed only when the device is being charged.

### **API Interface**

* Please contact me to discus

EC2 instance

If docker is usable, we will use docker, otherwise Conda