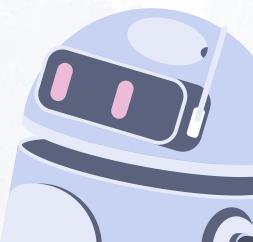
# Multi Speaker Transcription







**Group2 KJYIHUAYYDS** 

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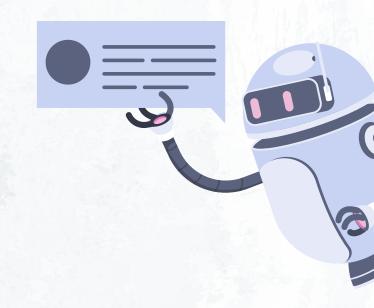
03 --- Our solution-Front end

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**01** —

Purpose



## Purpose

Target Users →

Low hearing people

#### Motivation →

• Current live transcript <u>application</u>

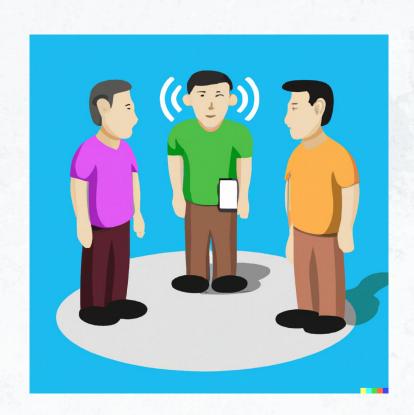


perform well on English

real-time transcript

What if it's a conversation with many people?

# Setting



## Example - 5-people conversation

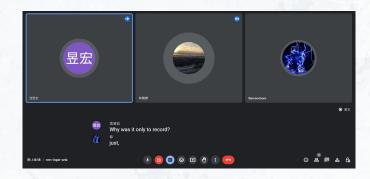




#### Possible solution - voice identification

**Hardware** - google meet --->

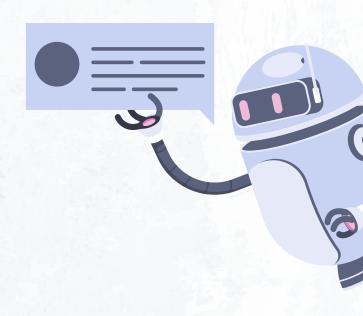
not a good solution in our setting



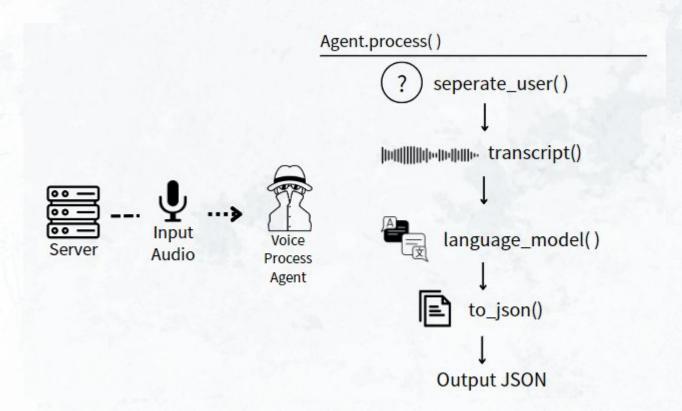
#### Software - speaker diarization(說話者分辨) ——

- Google cloud platform
- Amazon model
- often used for off-line data

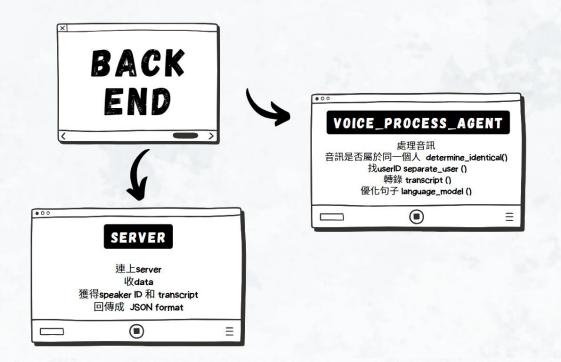
Our solution -Back end



## Back end - concept



### Back end - function



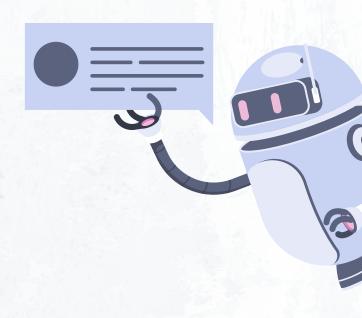
#### Models

Separate user → speech brain

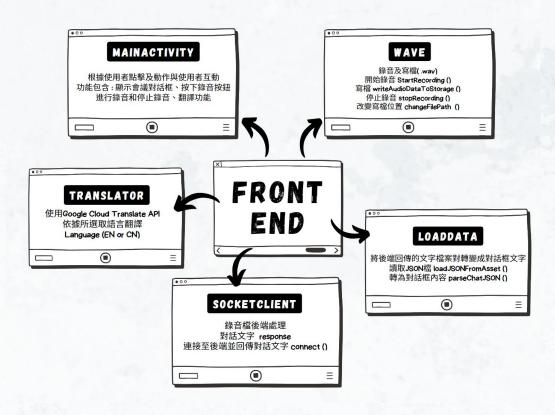
Transcript → speech\_recognition library (in PYPI) (google)

Language model → PALM

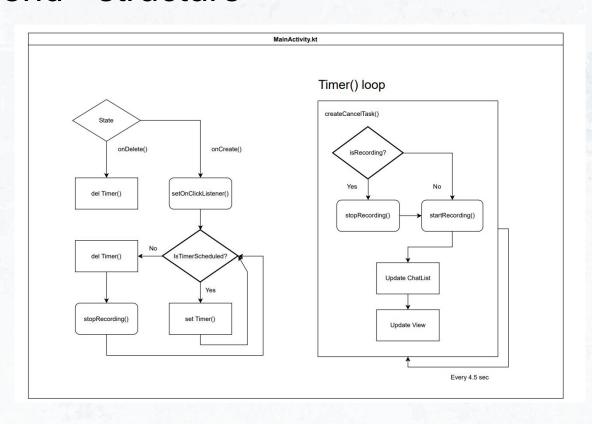
Our solution - Front End



#### Front end - function



## Front end - structure

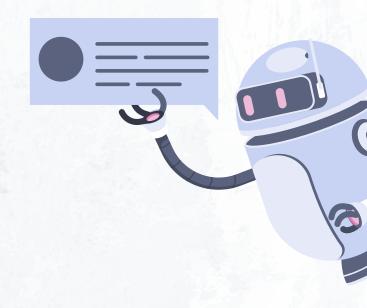


## Result

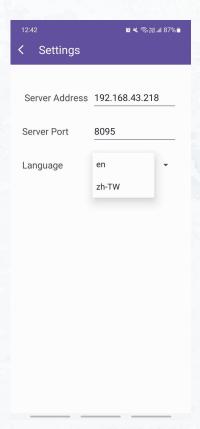
11:55 🗬 **©** ¥ \$ 128 al 94% ii 11:55 Yeah, how's your day? Pretty good and is it interesting? Yeah. I joined the what? 英文 (美國)



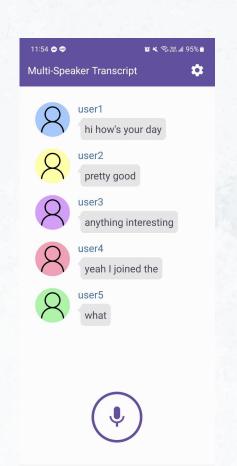
Translation - for more users



## **Setting Layout**



## Result





Demo

