PROJECT DESIGN PHASE 2

Date	15 October 2022
Team ID	PNT2022TMID14463
Project Name	Real-time communication system powered by AI for specially abled
	for specially abled
Maximum Marks	2 Marks

Functional Requirement

- System is presented as black box
- Hearing impaired, who that performs the signs
- Normal hearing is the passive user of the system

The System Requirements Can Be Specified,

- 1. Hearing impaired person should be able to perform sign that represent sentence
- 2. Hearing impaired person should be able to see the translation of sign to text
- 3. Hearing impaired person should be able to perform sign that represent word
- 4. Hearing impaired person should be able to perform sign that represent digit number
- 5. Hearing impaired person should be able to perform sign that represent alphabet letter 29
- 6. Hearing impaired person should be able to change the component (number/alphabet or word/sentence) for which translation to speech is provided

NORMAL FLOW

- The picture of the hand gestures done by users are captured and the alphabet letters are performed.
- The captured signs are analyzed by the system.
- The signs are converted into text and speech.

ALTERNATIVE FLOWS

- Sign not received:
- 1. System shows that sign is not received.
- 2. Output can't be detected if the sign was not recognized.
- 3. Users need to performs again the alphabet letter until it is recognized
- 2. Until the system shows that user is detected.
 - Enabling speech for this component:
- 1. Enable speech component