PROJECT DESIGN PHASE 2

Date	15 October 2022
Team ID	091e02b
Project Name	Real-time communication system powered by ai forspecially abled
Maximum Marks	2 Marks

Functional Requirement

- System is presented as black box
- Hearing impaired is the person 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 digit number
- 2. Hearing impaired person should be able to perform sign that represent alphabet letter 29
- 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 sentence
- 5. Hearing impaired person should be able to see the translation of sign to text
- 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

- User comes in front of camera and performs the alphabet letter
- System analyzes the performed sign
- System shows the sign meaning as text and speech

ALTERNATIVE FLOWS

- System indicates that user is not within field of view of Kinect
- 1. System shows that user is not detected
- 2. User enters the field of view
- 3. System shows that user is detected
 - Sign not recognized
- 1. System does not react to indicate that sign was not recognized
- 2. User performs again the alphabet letter until it is recognized
 - Enabling speech for this component:
- 1. Enable speech component