

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID10864
Project Name	Real-Time Communication System Powered by AI for Specially Abled.
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Gesture recognition	Understanding pointing gestures. Understanding nodding gestures. Understanding focused eye contact.
FR-2	Speech recognition	Understand independent speech. Understand dependent speech. Understand Natural Language.
FR-3	Track	This feature provides the ability to track the movement of the hand, this function is between the user and the GRE.
FR-4	Camera	The phone should have a camera to capture the images of sign language to convert it into text.
FR-5	Microphone	The phone should have a microphone to capture the speech of user to convert it to sign language.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The usability is made at ease so that the specially abled can easily access.
NFR-2	Security	The system has high security standards and the images gets deleted once they leave the app to maintain privacy.
NFR-3	Reliability	This system is made to understand all gestures as well as the languages spoken so it can be dependable without a second thought.
NFR-4	Performance	The performance of the system is set to be consistent.
NFR-5	Availability	This system is available both online as well as offline, it is made for an access for all the people across the globe.
NFR-6	Scalability	Can be used world wide if we feed all the languages in the world, or it can also be customised according to the region.