

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

Date	03 October 2022
Team ID	PNT2022TMID18207
Project Name	Project - 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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Authentication	Justify according to the deaf and dumb people and verify.
FR-4	Collection of datasets	Information about the different sign and the corresponding voice are collected.
FR-5	Text to speech	Select speech icon to convert the respective text for sign language.
FR-6	Whiteboard/Emergency template	Select whiteboard/Emergency template to pass the message quickly
FR-7	Reporting	There is a growing feeling that we need to do more, to help make the lives of people with disabilities easier.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Used for specially abled person to communicate with normal person without any barriers.
NFR-2	Security	The person who is using this website/app, their details and their personal data are protected.
NFR-3	Reliability	The exact sign conversion for the specified sign are found correctly and then their corresponding voice is given as output with high accuracy.
NFR-4	Performance	The proposed model is more efficient and can also be accessible by lots of people since it will be

		deployed on the internet with a user-friendly interface.
NFR-5	Availability	The website/app must be responsive so that any type of devices such as mobile, tablet, computer etc can be used.
NFR-6	Scalability	With adequate funding and manpower, the proposed model can be scaled up, which would make it a more sophisticated system that can recognize multiple sign languages and also convert into multiple normal languages.