

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

Date	17 October 2022
Team ID	PNT2022TMID45380
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	User Registration	User Must register through their Gmail
FR-2	User Communication	Communication can be done through the PC or laptop
FR-3	User communication	The user Has to communicate in Front of the Camera
FR-4	User Requirement	Option should be shown <ul style="list-style-type: none">• Hand sign to voice conversion• Voice conversion to hand sign
FR-5	Reporting	If any issue found in the app automatically it will be alert to the developer.
FR-6	Communication Requirement	<ul style="list-style-type: none">• There must be a one to one conversation.• The camera and mic should be required .
FR-7	Terms and Condition	Terms and conditions, private policy and agreement.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The camera captures all the expressions including facial expressions and hand gestures which can be easily recognised by all age groups.
NFR-2	Security	The system is more secure, the data stored in the database are confidentially.
NFR-3	Reliability	The system is very liable, it can last for long amounts of time if well maintained.
NFR-4	Performance	The performance of the model is more efficient.
NFR-5	Availability	The solution fits all the sign languages and face expressions when we train the model for all the signlanguages. So, it is used by all the countries with different languages.
NFR-6	Scalability	It also predicts quickly when it gets so many inputs at a time. It predicts different types of sign language at a time. The system gives output immediately.



