

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

Date	03 October 2022
Team ID	PNT2022TMID16504
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	Registration through Form. Registration through Gmail. Registration through LinkedIn.
FR-2	User Confirmation	Confirmation via Email. Confirmation via OTP.
FR-3	System Prerequisites	Webcam with a high resolution on a desktop. Microphone to record audio input. Audio output is provided by speakers.
FR-4	Authorization Levels	In terms of authorization, there are two levels: standard access level and advanced access level.
FR-5	Real-time Translator	In real time, it translates sign language into speech and vice versa.
FR-6	User Interface	Easy to use with an intuitive design along with a talkback feature.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system must be simple to use and accessible for everyone, including those with special needs.
NFR-2	Security	Only the authorised user has access to the information present in the application.
NFR-3	Reliability	For people who need it, such as those with special needs, the application must prove to be a necessary tool.
NFR-4	Performance	The translation system needs to be quick and responsive.
NFR-5	Availability	It must be accessible at all times and across several platforms.
NFR-6	Scalability	The application framework can be modified and developed in many ways like adding regional language support.

