

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

Date	4 November 2022
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	Sub Requirements
FR-1	User Registration	Registration through Form Registration through Gmail.
FR-2	User confirmation	Confirmation via Email Confirmation via OTP
FR-3	System	Desktop with high resolution camera
FR-4	Authorization Levels	There are two levels of authorization namely standard access level and advanced access level.
FR-5	External interface	Ethernet, Wi-Fi, USB to provide internet facility to access the resources with real time communication.
FR-6	Reporting	If any issues found in the application, automatically it will be notified to the developer.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	To convey a message to normal people, as well as convert speech into understandable sign language for the deaf and dumb people.
NFR-2	Security	Converted information using signs into speech is accessed only by the user.
NFR-3	Reliability	Provides insight into potential issues for desktop applications on managed devices.
NFR-4	Performance	The time for converting signs into speech should be faster for the real time communication.
NFR-5	Availability	Provides automatic recovery as much as possible.
NFR-6	Scalability	This app enables deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech is given as output.