

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

Date	16 October 2022
Team ID	PNT2022TMID26790
Project Name	Project - Real-Time Communication System Powered by AI for Specially Abled

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement	Sub Requirements
FR-1	<b>User Registration</b>	Registration through Form Registration through Gmail.
FR-2	<b>User confirmation</b>	Confirmation via Email Confirmation via OTP
FR-3	<b>System</b>	Desktop with high resolution camera
FR-4	<b>Authorization Levels</b>	There are two levels of authorization namely standard access level and advanced access level.
FR-5	<b>External interface</b>	Ethernet, Wi-Fi, USB to provide internet facility to access the resources with real time communication.
FR-6	<b>Reporting</b>	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	<b>Usability</b>	To convey a message to normal people, as well as convert speech into understandable sign language for the deaf and dumb people.
NFR-2	<b>Security</b>	Converted information using signs into speech is accessed only by the user.
NFR-3	<b>Reliability</b>	Provides insight into potential issues for desktop applications on managed devices.
NFR-4	<b>Performance</b>	The time for converting signs into speech should be faster for the real time communication.
NFR-5	<b>Availability</b>	Provides automatic recovery as much as possible.
NFR-6	<b>Scalability</b>	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.