

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

Date	03 October 2022
Team ID	PNT2022TMID23360
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	System Design	Robust system Easy and fast recognition and response
FR-4	Camera Orientation	The camera must be placed in such a way that the entire hand gesture is visible Should be placed in the opposite direction of light to ensure proper functioning Background color must be different the the skin color for the camera to fully detect the hand gesture.
FR-5	Pre-requisites	A minimal amount of knowledge on how to use the system is must.
FR-6	Webcam	The web cam should work continuously to capture the frames correctly. The position if the user should be in suc a way that the camera is able to capture their hand gestures fully and correctly.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It can be used by people of all age groups with considerable knowledge on system usage.
NFR-2	Security	Authentication is set up and only they can access it
NFR-3	Reliability	The model is built after training thousands of images and uses AI, hence it is reliable.
NFR-4	Performance	It detects sign language with high accuracy and sensitivity and gives a faster response.

NFR-5	Availability	
NFR-6	Scalability	