

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

Date	03 October 2022
Team ID	PNT2022TMID09339
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
FR-2	User Confirmation	Confirmation via Email
FR-3	Image Upload	Upload image through camera Upload image from Gallery
FR-4	System	Desktop/mobile with good quality camera
FR-5	Sign Language Conversion	Conversion of sign language into text using Convolutional Neural Network (CNN)
FR-6	System allowance/access	Provide system access to capture images/videos

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	This system is easy to use. It helps in translating sign language into our desired language.
NFR-2	Security	Only the user can sign in to the system and unauthorised users will be avoided at max.
NFR-3	Reliability	Accuracy, Predictability to a greater level
NFR-4	Performance	After receiving the sign language input from the user, translation is done faster than normal people can understand.
NFR-5	Availability	The system is accessible for every user at given point of time.

NFR-6	Scalability	Servers helps in achieving scalability whenever needed especially when the number of users increase.
-------	--------------------	--