

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID48853
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	Collect data set	Open the web page in google chrome and collect the image.
FR-2	Image uploading	Uploading the data in web page.
FR-3	Access the data	Access the trained data in the code.
FR-4	Using webcam/ camera/ voice receiver	Collect the input.
FR-5	Display	Produce converting output.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easy to Handle.
NFR-2	Security	Produces output when a voice or sign language is given as an input.
NFR-3	Reliability	Able to identify the speech and sign input and produces an output.
NFR-4	Performance	Rapid response while converting. Produce accurate output.
NFR-5	Availability	Nowadays Deaf Mute Communication Interpreter, Under Wearable communication method, there are Glove based system, Keypad method and Handicom Touchscreen.
NFR-6	Scalability	Easy to use. Can be able to respond quickly. Able to produce absolute translation. Should consume less data. Requirement of internet speed.