

PROJECT DESIGN PHASE-2
SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

Date	17 October 2022
Team ID	PNT2022TMID24857
Project Name	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	Language customization	The user performs language customization.
FR-2	User Options	The user either chooses to convert speech to sign language and sign language to speech.
FR-5	Test Inputs	The real time video and audio data is collected and fed into the machine learning model.
FR-6	Result	The conversion will take place simultaneously and will be displayed on the screen.

NON-FUNCTIONAL REQUIREMENTS:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The user will have access to all the resources present in that website.
NFR-2	Security	User information is protected.
NFR-3	Reliability	It offers accurate results.
NFR-4	Performance	The web application makes use of light weight model hence the result will be accurate and fast.
NFR-5	Availability	The web application can be accessed 24/7 from anywhere when connected to the internet.
NFR-6	Scalability	The trained ML model can provide accurate results whenever the size of the dataset and the number of users is extended.