

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	14 November 2022
Team ID	PNT2022TMID52086
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 Requirement	Converting sign language into speech that can be understand by normal people using an application.
FR-2	User Registration	Manual Sign up using the application or Gmail.
FR-3	User Confirmation	OTP authentication through phone messages, email, notices, paper and confirmation.
FR-4	Product Implementation	Install the dataset to recognise and translate hand gestures and voice for the real-time communication by using the application.
FR-5	Payment Option	Bank transfer, Debit cards, UPI method, if pro version required.
FR-6	Product Feedback	Through the application, phone conversation and Gmail.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It is used to describe the application and easy to access the application with the guidelines.
NFR-2	Security	It ensures the security of the application by building a firewall and two step verification support. Accessed only by authorised person by given user ID and password or OTP verification.
NFR-3	Reliability	To maintain the application conditions and update the version of the application. System update and software update are possible to increase various features and durability based on technology.
NFR-4	Performance	This application collects the datasets of hand gestures to provide accurate prediction. Using this method, we can communicate easily at anytime. This application is user friendly and can be accessed by both specially abled and normal people.
NFR-5	Availability	Depending on the requirements of the user, all required functions will be offered. When the user requests any features, the features are made available in places where users like to know about it.
NFR-6	Scalability	As based on application, real-time communication is accessed on a compatible devices. The application is based on voice conversion system, hand gesture recognition and translation.