

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	08 November 2022
Team ID	PNT2022TMID38013
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	User Requirement	Converting sign language into speech that can be understand by normal people using an application.
FR-2	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn.
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	Product Feedback	Through the application, phone conversation and Gmail.
FR-6	Legal Requirements	Proper Medical Certificate is produced to ensure the integrity of the users.

#### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	It is used to describe the application and easy to access the application with the guidelines.
NFR-2	<b>Security</b>	The system should protect the users data in a secure manner and avoid eavesdropping and such activities by means of encryption and decryption. The users will have a password which helps in secure Login
NFR-3	<b>Reliability</b>	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	<b>Performance</b>	The response time should be faster that improves the performance which is essential to cope up with the challenging world.
NFR-5	<b>Availability</b>	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	<b>Scalability</b>	The designed system should need to increase its performance whenever need is more and response to changes in processing demands.
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