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

Date	29 October 2022
Team ID	PNT2022TMID03937
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 Registration	Registration through Phone number Registration through Gmail Registration through Facebook ID
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Verification	The user should receive a verification e-mail or OTP which they have to enter it to finish the registration.
FR-4	Device Permission	Permission request for camera access to record real time gestures and to show sign-language output. Permission to store app related files in storage.
FR-5	Tutorial	The user will have a tutorial how to use the app and they will gain knowledge about the app easily.
FR-6	User input through app whether to start scan gesture recognition	Starts capturing video after this option is clicked .
FR-7	User input through app whether to stop the process	Stop Capturing /listening the scan recognition.
FR-8	Save gesture through app	Users can get the option to Save the Gesture inputs in their Device.
FR-9	Providing option to change language of the app in the settings menu	The UI will get reset to the custom language selected by the user.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application should be designed in such a way that is easy to use for specially abled persons and it should be portable and platform-independent.
NFR-2	**Security**	The system or the designed application will have Two -factor authentication and the users will have to enter a strong password at the time of registration.

NFR-3	**Reliability**	The system is tested with more samples of data and tested properly with more workloads to ensure that this app is working under all conditions to maintain the service and the reliability of the system.
NFR-4	**Performance**	The system is tested and trained to maintain fast performance , availability and user experience. It measures how fast or slows your app loads if the app crashes when it reaches a peak in user activity, and how smooth certain features (like Camera and Video) work.
NFR-5	**Availability**	The system is available in all platforms . It is available in android , IOS and Computers etc.
NFR-6	**Scalability**	The system has the capacity to handle growth, especially in handling more users and evolving concurrently with your business needs and in providing data on time to the customer.