

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

Date	10 November 2022
Team ID	PNT2022TMID48010
Project Name	Project - Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User can easily upload the image and this app is designed in a way where user can easily find some predefined templates
NFR-2	Security	User should sign in into an app only then proceed for further process. So unauthorized access will be avoided at max.
NFR-3	Reliability	This app has robust fault tolerance and even if a glitch occurs also it recovers fastly.
NFR-4	Performance	This app will quickly upload and process the images because it predict the sign language using CNN model and it gives high accuracy
NFR-5	Availability	The predefined templates will be available to all users and also have whiteboard option. This app is designed in a way that it is transparent and available to all users.

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 Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Uploading image	Upload image through camera Upload image through gallery
FR-4	Text to speech	Select speech icon to convert the respective text for sign language
FR-5	Whiteboard	Use whiteboard to share the message by drawing
FR-6	Emergency templates	Select emergency templates icon to pass the message quickly

Non-functional Requirements:

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

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NFR-6	Scalability	Developers can add new templates and it will increase scalability and this app has premium features where user have access to google maps and google duo and community chats.
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