

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

Date	20 November 2022
Team ID	PNT2022TMID29272
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 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.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	User can easily upload the image and this app is designed in a way where user can easily find some predefined templates
NFR-2	<b>Security</b>	User should signing into an app only then proceed for further process. So unauthorized access will be avoided at max.
NFR-3	<b>Reliability</b>	This app have robust fault tolerance and even if a glitch occurs also it recovers faster.
NFR-4	<b>Performance</b>	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	<b>Availability</b>	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.
NFR-6	<b>Scalability</b>	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