

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

Date	07 October 2022
Team ID	PNT2022TMID09233
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 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>	Client can undoubtedly upload the image and this application is planned in a manner here, client can without much of a stretch discover some predefined layouts
NFR-2	<b>Security</b>	Client should sign in into an app only then proceed for further process. So unapproved access will be kept away from at max.
NFR-3	<b>Reliability</b>	This application has robust adaptation to non-critical failure and regardless of whether an error happens likewise it recuperates rapidly.

NFR-4	<b>Performance</b>	This application will rapidly transfer and process the images since it predicts the gestures through signing utilizing CNN model and it gives high accuracy.
NFR-5	<b>Availability</b>	The predefined formats will be accessible to all clients and furthermore have whiteboard choice. This application is planned such that it is straightforward and accessible to all clients.
NFR-6	<b>Scalability</b>	Engineers can add new formats and it will build adaptability and this application has premium elements where client approach google maps and google duo.