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

Date	13 October 2022
Team ID	PNT2022TMID00980
Project Name	Real-time communication system powered by Al for specially abled
Maximum Marks	4 Marks

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR	Functional Requirement	Sub Requirement (Story / Sub-Task)
No. FR-1	(Epic) User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Approval	Through verification mails Through phone calls Through SMs
FR-4	User Transaction	Through net banking Through UPI
FR- 6	User input customization	Feeding images of hand gestures to be recognized and converted to speech Feeding multiple languages to obtain the required speech.
FR- 7	User output	Audio through speakers for speech Display for image or text for hand gestures

## **Non-functional Requirements:**

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

FR No.	Non-Functional	Description
	Requirement	
NFR- 1	Usability	<ul> <li>Light-weight and easily portable.</li> <li>Provided with battery of longer lifetime making it suitable for outdoor use.</li> </ul>
		<ul> <li>Easy to access and to get equipped with</li> </ul>

NFR- 2	Security	<ul> <li>little knowledge to use the technology.</li> <li>Anytime anywhere access.</li> <li>User-friendly and easy to customize.</li> <li>The data fed cannot be accessed or modified without authority.</li> <li>Highly-secure and safe to use.</li> </ul>
NFR- 3	Reliability	<ul> <li>With more content fed to the device, accuracy of conversion increases.</li> <li>The program can be periodically checked and updated in order to have better accuracy.</li> </ul>
NFR- 4	Performance	<ul> <li>Provides quick response after conversion.</li> <li>Consumes less power and produces more efficiency.</li> <li>Can be customized with features like user specific hand gesture images and multiple languages.</li> </ul>
NFR- 5	Availability	<ul> <li>With connection, provides anytime and anywhere access</li> <li>Longer battery life ensures that this can be used for longer duration continuously.</li> </ul>
NFR- 6	Scalability	<ul> <li>Able to add much more features like recording few information for future use.</li> <li>Can be implemented with capturing instances</li> <li>Network can also be expanded such that 2 or more devices can be connected and operated to a single network simultaneously.</li> </ul>