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

Date	20 October 2022
Team ID	PNT2022TMID49261
Project Name	Project: Real-Time Communication System Powered by AI for Specially-Abled
Maximum Marks	4 Marks

**Functional Requirements:** 

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)		
FR-1	User Registration	<ul><li>Registration through Web UI/ E-Mail ID.</li><li>Authentication via OTP.</li></ul>		
FR-2	User Confirmation	Confirmation via mail.		
FR-3	System	<ul> <li>Desktop/ Mobile with good resolution camera.</li> <li>Provides system access to capture images/ video and other relevant data.</li> </ul>		
FR-4	Text conversion	Converts the Sign language into a text using Convolutional Neural Network (CNN) Model.		
FR-5	Sentence Translation	To create sentence(s) by recognizing the signs and pauses in the input video stream.		

**Non-Functional Requirements:** 

Non-r uncuonal Requirements:							
NFR No.	Non-Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)					
		Deaf-mute people should be able to use the system					
NFR-1	Usability	with ease. The same applies for normal people who					
		get the system's output. The system should have					
		good UI.					
		Even though the use-case of the system doesn't need					
NFR-2	Security	any security feature, it must be ensured that the					
		privacy of user data be maintained and handled					
		appropriately.					
		The translation of sign languages should be reliable.					
NFR-3	Reliability	The accuracy of the system should be tested					
		extensively to make sure that it is up to the mark.					
		The processing should be done in considerable time					
NFR-4	Performance	so that the conversation can go on without waiting for					
		the system's output.					
		The system should be universally accessible. Since					
NFR-5	Availability	sign language is almost same everywhere, the system					
		can be used across the globe.					
		The system should be scalable to accommodate new					
NFR-6	Scalability	features and functionalities and to cater wider range					
		of people in future.					