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

Date	07 November 2022
Team ID	PNT2022TMID13334
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 Gmail
FR-2	User Confirmation	Confirmation via Email
FR-3	Live capturing	Camera enabled devices can be used
FR-4	Translation	Conversion of sign language to text.
FR-5	Speech	Text to speech conversion.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple GUI for easier interactions
NFR-2	Security	Authentication, authorization and encryption of the application using IBM Watson cloud security
NFR-3	Reliability	System should work dynamically without any failure for most of the time
NFR-4	Performance	By using IBM Cloud APM , data center , cloud infrastructure , and workloads are managed with cognitive intelligence . Outages and slowdowns can be reduced and prevented around the clock in a hybrid application world as Cloud APM assists in moving from identifying performance issues to isolating where the problem is occuring and diagnosing issues before the application is impacted
NFR-5	Availability	IBM Cloud uses global load balancing to ensure that a redundant , highly available platform is available to host the workloads and applications
NFR-6	Scalability	IBM Cloud Bare Metal servers help in achieving scalability whenever needed especially when numbers of users increase