

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

<b>Date</b>	15 October 2022
<b>Team ID</b>	PNT2022TMID41505
<b>Project Name</b>	Real-Time Communication System Powered By AI For Specially Abled
<b>Maximum Marks</b>	4 Marks

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
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.

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
<b>NFR-1</b>	<b>Usability</b>	Simple GUI for easier interactions.
<b>NFR-2</b>	<b>Security</b>	Authentication, authorization and encryption of the application using IBM Watson cloud security.
<b>NFR-3</b>	<b>Reliability</b>	System should work dynamically without any failure for most of the time.
<b>NFR-4</b>	<b>Performance</b>	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 occurring and diagnosing issues before the application is impacted.
<b>NFR-5</b>	<b>Availability</b>	IBM Cloud uses global load balancing to ensure that a redundant, highly available platform is available to host the workloads and applications.
<b>NFR-6</b>	<b>Scalability</b>	IBM Cloud Bare metal servers help in achieving scalability whenever needed especially when number of users increase.