

**PROJECT DESIGN PHASE-2**  
**SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)**

<b>Date</b>	17 October 2022
<b>Team ID</b>	PNT2022TMID40863
<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	<b>Language customization</b>	The user performs language customization.
FR-2	<b>User Options</b>	The user either chooses to convert speech to sign language and sign language to speech.
FR-5	<b>Test Inputs</b>	The real time video and audio data is collected and fed into the machine learning model.
FR-6	<b>Result</b>	The conversion will take place simultaneously and will be displayed on the screen.

### NON-FUNCTIONAL REQUIREMENTS:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The user will have access to all the resources present in that website.
NFR-2	<b>Security</b>	User information is protected.
NFR-3	<b>Reliability</b>	It offers accurate results.
NFR-4	<b>Performance</b>	The web application makes use of light weight model hence the result will be accurate and fast.
NFR-5	<b>Availability</b>	The web application can be accessed 24/7 from anywhere when connected to the internet.
NFR-6	<b>Scalability</b>	The trained ML model can provide accurate results whenever the size of the dataset and the number of users is extended.