

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

Date	16 October 2022
Team ID	PNT2022TMID44057
Project Name	Real-Time Communication powered b 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 or OTP
FR-3	User Login	Login to the portal
FR-4	Specially abled person faces many difficulties and how to solve that problems	<ul style="list-style-type: none"><li>❖ Image recognition for people with a visual impairment,</li><li>❖ Facial recognition for people with a visual impairment,</li><li>❖ Lip-reading recognition for people with a hearing impairment,</li><li>❖ Text summarization for people with a mental impairment,</li><li>❖ Real-time captioning or translations for people with a hearing impairment or even people who don't speak the language.</li></ul>
FR-5	Interface response	Technology adapts and helps transform the world into an inclusive place with artificial intelligence accessibility. There is a certain sense of equality as AI puts everybody, with or without disabilities, at the same level.
FR-6	Normal person	A normal person has no serious physical or mental health problems.No need of AI and that normal person thinks about AI technology.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	AI may also allow people with disabilities to fully control their environments—not only at home but also in the classroom and the workplace. Full-scale automation may not yet be practical, but progress is being made.
NFR-2	<b>Security</b>	Human error is still the leading cause of workplace accidents in many cases. This is where AI can help. With its ability to process and analyze data quickly,

		AI can identify potential risks and hazards that might be missed by humans. It's more secure.
NFR-3	<b>Reliability</b>	Artificial intelligence is not designed to replace humans but rather to enhance our lives by helping us do things we are unable to do on our own. These innovations could positively impact everyone's life. Even those without disabilities – because they make everyday tasks easier and less time consuming.
NFR-4	<b>Performance</b>	AI technology can empower people living with limited physical mobility. This application program uses the potential of Artificial Intelligence to develop solutions to many physical and cognitive challenges disabled individuals face at work and in daily life to promote social inclusion for them. Tools and functions are aimed to increase independence and productivity for disabled people in employment, daily life, and communication.
NFR-5	<b>Availability</b>	Artificial Intelligence has been opening up new and simpler ways to manage our daily activities. With the big potential to automate tasks that typically require human intelligence, such as speech and voice recognition, visual perception, predictive text functionality, decision-making and performance of a variety of other tasks, AI can help individuals with disabilities by making a major difference in their ability to get around and take part in the activities of daily living for a specially abled.
NFR-6	<b>Scalability</b>	Scalable AI is the ability of AI algorithms, data, models, and infrastructure to operate at the size, speed, and complexity required for the mission. This application has a quality of scalability to help Specially abled person.