Project Design Phase-II

Functional Requirements (both Functional & Non-functional)

Date	15 October 2022
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 Affirmation	Affirmation via Email
FR-3	User Communication	Correspondence should be possible through pc or portable camera.
FR-4	User requirement	Option should be shown for hand sign to text and voice conversion and vice versa.
FR-5	Communication Necessities	Tutor can be made available to have one to one teaching for user.
FR-6	Regulatory Necessities	App shutdown in case of cyber attack
FR-7	Reporting	On the off chance that any issues tracked down in the application, naturally it will be advised to the designer.

FR-8	Compliance to rules or law	Terms and conditions, private policy, End user subscription agreement.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The camera captures all expressions including facial expressions and hand gestures which can be easily used by all age groups.
NFR-2	**Security**	The system is more secure and information of the customers is also maintained confidentially.
NFR-3	**Reliability**	The cost-effective nature of the system makes it extremely liable and thus,efficient.
NFR-4	**Performance**	The performance of the model is efficient. The cost-effective nature of the system makes it extremely liable. The latency is very less for the conversion process.
NFR-5	**Availability**	The solution is suitable for different languages and can be used in many countries. It can be trained for all the available sign languages. This model can be used at any time anywhere.
NFR-6	**Scalability**	The system gives output rapidly. It also predicts quickly when it gets so many inputs at a time. It predicts different types of sign language at a time.