Project Design Phase-II

Real-Time Communication System Powered by AI for Specially Abled

Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID52686
Project Name	Project - 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 Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Disability	Confirmation of the user whether he/she is a deaf or dumb.
FR-4	User Validation	Validating the acquired information of the user
FR-5	User Location	Confirming the location of the user for the security purposes
FR-6	User Hand gesture to text	The gesture of the user is converted into text format via the camera
FR-7	User Hand gesture to voice	The gesture of the user is converted into voice format via the camera

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system provides a natural interaction with the users. The specially abled person need not to worry, They can just converse using the language they know (i.e. using hand gestures) which can be understandable by the person in opposite.
NFR-2	**Security**	The model enables with the high security system, as the user's data won't be shared to the other sources. Special security features like One time Password and 2-step verification are also an integrated part of the system.
NFR-3	**Reliability**	As the system is build using a rich and state-of-Art of Dataset mostly all the user input can be processed and since all the processing are done on cloud the system is consider to be highly reliable.
NFR-4	**Performance**	Our system should run on 32 bit (x86) or 64 bit (x64) Dual-core 2.66-GHZ or faster processor.
NFR-5	**Availability**	The system should be available for the duration of the user access the system until the user terminate the access. The system response to request of the user in less time and the recovery is done is less time.
NFR-6	**Scalability**	It provides an efficient outcome and has the ability to increase or decrease the performance of the system based on the datasets.