

Project Design Phase II

Solution Requirements (Functional & Non-functional)

Date	17 Oct 2022
Team ID	PNT2022TMID51928
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.

FRNO	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR1	User Registration	Registration through Gmail Registration through form
FR3	User Confirmation	Confirmation via Email Confirmation via OTP
FR4	Input test case must not have compilation and runtime errors	Data Collection Data Preprocessing
FR5	The application must not stop working when kept running for even a long time.	Training the model.
FR6	The application must function as expected for every set of test cases provided	Testing the model
FR7	The application should generate the output for given input test case and input parameters	Verification of the model using the user data
FR8	The application should generate	Deployment of the model in the cloud for

	on-demand services	on-demand availability.
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Non-functional Requirements:

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

NFR No	Non-functional requirement	Description
1	Portability	Since the model is written in python , it is portable
2	Performance	It follows a well-defined set of procedures and rules to compute and also rigorous testing is performed to confirm the correctness of the data.
3	Ease of Use	The front end is designed in such a way that it provides an interface which allows the user to interact in an easy way.
4	Reliability	This software is being developed in such a way that the overall performance is optimized and the user can expect the results within a limited time with utmost relevance and correctness.
5	Modularity	The complete product is broken up into many modules and well defined interfaces are developed to explore the benefit of flexibility of the product.
6	Scalability	The model can be extended to detect more signs in future and can also be used by many number of users at the same time without any fault or delay.