

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

Date	03 October 2022
Team ID	PNT2022TMID10160
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 Input	User inputs are either voice or text.
FR-2	Feature extraction	It extracts feature using heuristic and visual similarity approach.
FR-3	Prediction	Model predicts the given input meaning and provides as hand-sign video output using AI algorithm.
FR-4	Classifier	Model sends all output to classifier and produces final result.
FR-5	Announcement	Model then displays the expected result of what the user is expecting to deliver
FR-6	Accuracy	This model needs the capability of retrieving and displaying accurate result for a communication.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Users can give the input directly in the text bar provided in the interface.
NFR-2	<b>Security</b>	The application does not store any sensitive and personal data of the user.
NFR-3	<b>Reliability</b>	The predictions are made based of verified AI model which has been tests multiple times.
NFR-4	<b>Performance</b>	The accuracy is high and it can predict accurately than existing any traditional detection method.
NFR-5	<b>Availability</b>	It is available and compatible on all platform and devices.
NFR-6	<b>Scalability</b>	The application can be used among all people across worldwide and adapt elsewhere.