# Project Design Phase-II

**Solution Requirements (Functional & Non-functional)**

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| Date | 17 October 2022 |
| Team ID | PNT2022TMID54147 |
| 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.

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| **FR**  **No.** | **Functional Requirement**  **(Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | User Must register through their Gmail |
| FR-2 | User Communication | Communication can be done through the PC or laptop |
| FR-3 | User communication | The user Has to communicate in Front of the Camera |
| FR-4 | User Requirement | Option should be shown   * Hand sign to voice conversion * Voice conversion to hand sign |
| FR-5 | Reporting | If any issue found in the app automatically it will be alert to the developer. |
| FR-6 | Communication Requirement | * There must be a one to one conversation. * The camera and mic should be   required . |
| FR-7 | Terms and Condition | Terms and conditions, private policy and  agreement. |

# Non-functional Requirements:

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The camera captures all the expressions including facial expressions and hand gestures which can be easily recoganised  by all age groups. |
| NFR-2 | **Security** | The system is more secure, the data stored in the database are confidentialy. |
| NFR-3 | **Reliability** | The system is very liable, it can last for  long amounts of time if well maintained. |
| NFR-4 | **Performance** | The performance of the model is more efficient. |
| NFR-5 | **Availability** | The solution fits all the sign languages and face expressions when we train the model for all the signlanguages. So, it is used by all the countries with  different languages. |
| NFR-6 | **Scalability** | It also predicts quickly when it gets so many inputs at a time. It predicts different types of sign language at a time. The  system gives output immediately. |