# Project Design Phase-II

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

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| Date | 13 October 2022 |
| Team ID | PNT2022TMID46549 |
| 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.

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| **FR No.** | **Functional Requirement** | **Sub Requirements** |
| FR-1 | **User Registration** | Registration through Form  Registration through Gmail. |
| FR-2 | **User confirmation** | Confirmation via Email  Confirmation via OTP |
| FR-3 | **System** | Desktop with high resolution camera |
| FR-4 | **Authorization Levels** | There are two levels of authorization namely standard  access level and advanced access level. |
| FR-5 | **External interface** | Ethernet, Wi-Fi, USB to provide internet facility to  access the resources with real time communication. |
| FR-6 | **Reporting** | If any issues found in the application, automatically it  will be notified to the developer. |

## 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** | To convey a message to normal people, as well as convert speech into understandable sign language  for the deaf and dumb people. |
| NFR-2 | **Security** | Converted information using signs into speech is  accessed only by the user. |
| NFR-3 | **Reliability** | Provides insight into potential issues for desktop  applications on managed devices. |
| NFR-4 | **Performance** | The time for converting signs into speech should be  faster for the real time communication. |
| NFR-5 | **Availability** | Provides automatic recovery as much as possible. |
| NFR-6 | **Scalability** | This app enables deaf and dumb people to convey their information using signs which get converted to  human-understandable language and speech is given as output. |