

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

| | |
|---------------|---|
| Date | 02 NOVEMBER 2022 |
| Team ID | PNT2022TMID26094 |
| 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 | 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.

| 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. |