

## Project Design Phase-II

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

|                      |   |
|----------------------|---|
| <b>Date</b>          | <b>02 NOVEMBER 2022</b>   |
| <b>Team ID</b>       | <b>PNT2022TMID51815</b>   |
| <b>Project Name</b>  | <b>Project - Real-Time Communication System Powered by AI for Specially Abled</b> |
| <b>Maximum Marks</b> | <b>4 Marks</b>  |

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

| <b>FR No.</b> | <b>Functional Requirement</b> | <b>Sub Requirements</b>  |
|---------------|-------------------------------|--|
| FR -1         | User Registration             | Registration through Form<br>Registration through Gmail.   |
| FR -2         | User confirmation             | Confirmation via Email<br>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.

| <b>FR No.</b> | <b>Non-Functional Requirement</b> | <b>Description</b>  |
|---------------|-----------------------------------|---|
| 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 |