Project Design Phase-II

# Solution Requirements (Functional & Non-functional)

|  |  |
| --- | --- |
| Date | 10 Nov 2022 |
| Team ID | PNT2022TMID29189 |
| 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.

|  |  |  |
| --- | --- | --- |
| FR | Functional Requirement | Sub Requirement (Story / Sub-Task) |
| No. | (Epic) |  |
| FR-1 | User communication | User Must Know the Sign Language |
| FR-2 | User communication | The user Has to communicate in Front of the Camera |

# Non-functional Requirements:

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The camera captures all expressions including facial expressions and hand gestures which can be easily used by all age groups. |
| NFR-2 | **Reliability** | The system is very liable, it can last for  long amounts of time if well maintained. |
| NFR-3 | Performance | The cost-effective nature of the system makes it extremely liable and thus,  efficient. |
| NFR-4 | Availability | The solution fits all the sign languages when we train the model for all the sign languages. So, it is used by all the countries with different languages. |

|  |  |  |
| --- | --- | --- |
| NFR-5 | Scalability | The system gives output rapidly. It also predicts quickly when it gets so many inputs at a time. It predicts different types of sign language at a time. |