

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

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| Date | 07 October 2022 |
| Team ID | PNT2022TMID48284 |
| 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 No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|---------------|--------------------------------------|----------------------------------------------------|
| 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. |

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| 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. |
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| 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. |
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