

PROJECT DESIGN PHASE-II
SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

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| Team ID | PNT2022TMID36394 |
| 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 Registration | Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email |
| FR-3 | User Selection | User can select option either sign language to text/voice or text/voice to sign language |
| FR-4 | User Requirement | Mobile or Laptop |
| FR-5 | User Guide | Guidance to use the application will be inbuilt |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | This application helps to convert the sign language to text/voice or vice versa. So this application will be useful for both specially abled people and normal people to communicate each other. |
| NFR-2 | Security | This system is protected and only authorized users can access it. |
| NFR-3 | Reliability | The application will predict the hand gesture and convert it to exact text or voice. |
| NFR-4 | Performance | The application responds to a user in seconds and the hardware and software works well. |
| NFR-5 | Availability | It is accessible by authorised user from anywhere at any time whenever they need. |
| NFR-6 | Scalability | It can predict different types of sign language at a time. More numbers of users can be accessed. |