

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

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| Team ID | PNT2022TMID45952 |
| Project Name | Real-Time Communication System Powered by AI for Specially Abled |

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 | <ul style="list-style-type: none">➤ Registration through Form➤ Registration through Gmail➤ Registration through LinkedIn |
| FR-2 | User Confirmation | <ul style="list-style-type: none">➤ Confirmation via Email➤ Confirmation via OTP |
| FR-3 | Authentication | <ul style="list-style-type: none">➤ Confirmation through Facial acknowledgment➤ Confirmation through secret key verification convention |
| FR-4 | External interfaces | Robots and different apparatuses give locally situated care also, other help, permitting individuals with handicaps to freely live. |
| FR-5 | Transaction processing | Many application can use to interpret the communication through signing like D talk in the framework |
| FR-6 | Reporting | There is a developing indication that we want to accomplish more, to assist make the existences of individuals with handicaps more straightforward. |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | The application and the product we are developing will be enabled with the facilities of voice engines which helps the user to analyse the surroundings and act accordingly. It also includes features such as speech to text and speech to signs and vice versa which allows deaf people to communicate with the outside world. |
| NFR-2 | Security | This application provides a highly confidential platform when it comes to user security. It stores each and every detail of the users in a highly secured database which is impossible to access by the third parties. |
| NFR-3 | Reliability | Our application provides quality customer service with high security so this will be trustworthy. |
| NFR-4 | Performance | Speed, Accuracy, Efficiency, User-friendly. |
| NFR-5 | Availability | Since our application does not contain any premium customers option it will be affordable for all the users. The users can always download it from google play store or apple store or from any other online application platforms. |
| NFR-6 | Scalability | It is a single user entity. On the basis of performance this application will work efficiently even with less bandwidth of internet. |