**Project Design Phase-II**

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

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| Date | 22 October 2022 |
| Team ID | PNT2022TMID03512 |
| Project Name | Project - 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.

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | User Interface | Can be easily accessed and handled & is user friendly |
| FR-4 | Collection of datasets | Pictures of hand gestures and sign language & audio description of them |

**Non-functional Requirements:**

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

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Used for communication between specially abled person and normal person without any barriers. |
| NFR-2 | **Security** | The user’s personal data and details are protected while using the application |
| NFR-3 | **Reliability** | Efficient recognition of the sign language is done and accurate audio form is provided |
| NFR-4 | **Performance** | The proposed model is more efficient and can also be accessible by lots of people since it will be deployed on the internet with a user-friendly interface |
| NFR-5 | **Availability** | It can be easily accessed with the help of mobiles, smart watches and also computers. |
| NFR-6 | **Scalability** | The model can be scaled up by the industries to provide access to everyone in this world and further it can extended to provide service in various languages. |