**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID35886 |
| 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 | User friendly and can be handled easily. |
| FR-4 | Collection of datasets | Information about the different sign and the corresponding voice are collected. |

**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 specially abled person to communicate with normal person without any barriers. |
| NFR-2 | **Security** | The person who is using this website, their details and their personal data are protected. |
| NFR-3 | **Reliability** | The exact sign conversion for the specified sign are found correctly and then their corresponding voice is given as output with high accuracy. |
| 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** | The website must be responsive so that any type of devices such as mobile, tablet, computer etc can be used. |
| NFR-6 | **Scalability** | With adequate funding and manpower, the proposed model can be scaled up, which would make it a more sophisticated system that can recognize multiple sign languages and also convert into multiple normal languages. |