Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 11 November 2022 |
| Team ID | PNT2022TMID21004  **Explore AS, differentiate**  **Deﬁne CS, ﬁt into CC** |
| Project Name | Project Title - 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 | system | Desktop with high resolution camera |
| FR-4 | External interface | Ethernet, Wi-Fi, USB to provide internet facility to access the resources with real time communication. |
| FR-5 | Authorization Levels | There are two levels of authorization namely standard  access level and advanced access level. |
| FR-6 | Reporting | If any issues found in the application, automatically it  will be notified to the developer. |

# 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** | To convey a message to normal people, as well as convert speech into understandable sign language  for the deaf and dumb people. |
| NFR-2 | **Security** | To convey a message to normal people, as well as convert speech into understandable sign language  for the deaf and dumb people. |
| NFR-3 | **Reliability** | Provides insight into potential issues for desktop  applications on managed devices. |
| NFR-4 | **Performance** | The time for converting signs into speech should be faster for the real time communication. |
| NFR-5 | **Availability** | The time for converting signs into speech should be  faster for the real time communication. |
| NFR-6 | **Scalability** | This app enables deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech is  given as output. |