**Project Design Phase-II**

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

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| Date | 07October 2022 |
| Team ID | PNT2022TMID34132 |
| Project Name | Project - Real-Time Communication System Powered by AI for Specially Abled |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | User can easily upload the image and this app is designed in a way where user can easily find some predefined templates |
| NFR-2 | **Security** | User should signin into an app only then proceed for further process. So unautrhorized access will be avoided at max. |
| NFR-3 | **Reliability** | This app has robust fault tolerance and even if a glitch occurs also it recovers fastly. |
| NFR-4 | **Performance** | This app will quickly upload and process the images because it predict the sign language using CNN model and it gives high accuracy |
| NFR-5 | **Availability** | The predefined templates will be available to all users and also have whiteboard option. This app is designed in a way that it is transparent and available to all users. |

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 | Uploading image | Upload image through camera Upload image through gallery |
| FR-4 | Text to speech | Select speech icon to convert the respective text for sign language |
| FR-5 | Whiteboard | Use whiteboard to share the message by drawing |
| FR-6 | Emergency templates | Select emergency templates icon to pass the message quickly |

**Non-functional Requirements:**

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

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| --- | --- | --- |
| NFR-6 | **Scalability** | Developers can add new templates and it will increase scalability and this app has premium features where user have access to google maps and google duo and community chats. |