Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 11 October 2022 |
| Team ID | PNT2022TMID24798 |
| 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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|  | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Register using Username and password. |
| FR-2 | User Confirmation | Once they logged in using username and password,  they will receive the confirmation through Gmail. |
| FR-3 | Live Streaming | \*User should be taken to a screen where he can upload a video.  \* User should also be able to stream live video from his webcam. |
| FR-4 | Displaying the interpreted text | Whenever the Image is captured, the respective text has to be displayed in output device. |

# 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** | * Visual and Audio Help * Text size scaling * Reverse contrast |
| NFR-2 | **Security** | Authentication has to be done in order to ensure the security of the users. |
| NFR-3 | **Reliability** | The platform should be comfort and reliable for user  with no errors or bugs. |
| NFR-4 | **Performance** | Once the image is captured, the respective text has to be displayed immediately or with some delay. |
| NFR-5 | **Availability** | It is available in the online platform in minimal cost. |
| NFR-6 | **Scalability** | App should be scalable independently with frontend and backend servers. Frontend servers will take care of streaming the video to the backend server where model inference happens. |