Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID30468 |
| 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 | **LOW VISION:**  As a user who has trouble reading due to low vision, I want to be able to make the text larger on the screen so that I can read it.  **Registration through Gmail** |
| FR-2 | User Confirmation | **IMPAIRED USER:**  As a user who is hearing -impaired, I want a turn on video captions so that I can understand what is being said in videos.  **Confirmation via Email** |
| FR-3 | User Registration | **COLOR BLINDNESS**:  As a user who is color blind, I want to links to be distinguishable on the page so that I can find the links and navigate the site.  **Registration through Gmail** |

# 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** | Important information:   * Walking in single file or in narrow space. * Steps, Stairs and Slope. * Kerbs and Roads. |
| NFR-3 | **Reliability** | To determine reliability measures are:   * Test-Retest Repeatability * Individual Repeatability |
| NFR-4 | **Performance** | To determine predictors of success in reading with low vision aids, in terms of reading acuity, optimum acuity reserve, and maximum reading speed, for  observers with low vision for various causes. |
| NFR-5 | **Availability** | Lack of adequate low vision services and barriers to their provision and uptake impact negatively on  efforts to prevent visual impairment and blindness. |
| NFR-6 | **Scalability** | There is a large selection of device to help people with low vision. Some are “Optical”, glass lenses  such as magnifying glasses and telescopes. |