REAL-TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY-ABLED

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	10 October 2022
Team ID	PNT2022TMID26213
Project Name	Real-Time Communication Powered By AI For Specially Abled
Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR NO.	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.

NFR 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.