

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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| Team ID | PNT2022TMID34277 |
| Project Name | Project – Real Time Communication System Powered by AI for Specially Abled. |
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Functional Requirements:

Following are the functional requirements of the proposed solution.

| | 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.

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | <ul style="list-style-type: none">• Visual and Audio Help• Text size scaling• Reverse contrast |
| NFR-2 | Security | Important information: <ul style="list-style-type: none">• Walking in single file or in narrow space.• Steps, Stairs and Slope.• Kerbs and Roads. |
| NFR-3 | Reliability | To determine reliability measures are: <ul style="list-style-type: none">• 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. |