**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID47661 |
| Project Name | Project – Signs With Smart Connectivity For Better Road Safety |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

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 | Sign Boards should be made of bright coloured LED’S enable of attractive driver’s attention not too distracting to cause accidents |
| FR-2 | User Confirmation | Should display information through means like images/illustrations with text so that the user can understand the signs correctly |
| FR-3 | User Conveience | Display should be big enough to display all the signs correctly so that it is visible even to far away drivers |

**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** | Should be able to dynamically update with respect to time. |
| NFR-2 | **Security** | Should be secure enough that only the intended messages are displayed in the display. |
| NFR-3 | **Reliability** | Should convey the traffic information correctly. |
| NFR-4 | **Performance** | Display should update dynamically whenever the weather or traffic values are updated. |
| NFR-5 | **Availability** | Should be on service 24/7 |
| NFR-6 | **Scalability** | should be modular and hence able to scale on servers horizontally. |