

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

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Team ID PNT2022TMID35153

Project Name Project - Signs with Smart Connectivity for Better Road Safety

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No. FR-1

Functional Requirement (Epic) User Visibility

FR-2

User Understanding

Sub Requirement (Story / Sub-Task) Sign Boards should be made of bright coloured LEDs capable of attracting driver's attention Not too distracting to cause accidents Should display information through means like images/illustrations with text so that the user can understand the signs correctly Display should be big enough to display all the signs correctly so that it is visible even to far away drivers

FR-3

User Convenience

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No. NFR-1

Non-Functional Requirement Usability

Description Should be able to dynamically update with respect to time. Should be secure enough that only the intended messages are displayed in the display. Should convey the traffic information correctly.

NFR-2

Security

NFR-3

Reliability

NER-4

Performance

Display should update dynamically whenever the weather or traffic values are updated
Should be on service 24/7

NFR-5

Availability

NER-6

Scalability

Should be modular and hence able to scale on servers horizontally.