

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

Date	10 November 2022
Team ID	PNT2022TMID12702
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum 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 Visibility	Bright coloured LEDs that can catch drivers' attention but aren't too distracting to cause accidents should be used in sign boards.
FR-2	User Understanding	So that the user can accurately interpret the signs, information should be displayed using tools like graphics and illustrations with text.
FR-3	User Convenience	The display needs to be large enough to accurately display each sign so that it can be seen by drivers in the distance.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Dynamically updating in a time-based manner should be possible.
NFR-2	<b>Security</b>	To ensure that only the desired messages are shown in the display, it should be secure enough.
NFR-3	<b>Reliability</b>	Should convey the traffic information correctly.
NFR-4	<b>Performance</b>	Every time the traffic or weather values are updated, the display should dynamically refresh.
NFR-5	<b>Availability</b>	Should be on service 24/7.
NFR-6	<b>Scalability</b>	In order to extend horizontally between servers, it should be modular and unique.