

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

Date	10 October 2022
Team ID	PNT2022TMID54322
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	Usability	Dynamically updating in a time-based manner should be possible.
NFR-2	Security	To ensure that only the desired messages are shown in the display, it should be secure enough.
NFR-3	Reliability	Should convey the traffic information correctly.
NFR-4	Performance	Every time the traffic or weather values are updated, the display should dynamically refresh.
NFR-5	Availability	Should be on service 24/7.
NFR-6	Scalability	In order to extend horizontally between servers, it should be modular and unique.