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

Date	17 October 2022
Team ID	PNT2022TMID52137
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	Sign Boards should be made of bright coloured LEDs capable of attracting driver's attention not to distracting to cause accidents
FR-2	User Understanding	Should display information through means like Images / illustrations with text so that the user can understand the signs correctly.
FR-3	User Convenience	Display should be big enough to display all signs Correctly so that it is visible even to the far away drivers.

Non-functional Requirements:

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

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 for 24/7
NFR-6	**Scalability**	Should be modular and hence able to scale on servers horizontally.