

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

Date	03 October 2022
Team ID	PNT2022TMID07843
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 with LED's which are bright colored and are capable of attracting the drivers attention but it should also not be too distracting or blinding cause it may lead to accidents.
FR-2	User Need	The smart sign boards should be placed frequently in places it is needed and less in places where in places where it is not needed much to avoid confusion for the user during travel.
FR-3	User Understanding	For better understanding of the driver, the signs should be big , clear and legible and it can also include illustrating which will make it easily understandable to the driver.
FR-4	User Convenience	The display should be big enough that it should even be visible from far distance clearly.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Will provide the clear product instructions and a self-explanatory product which is simple to use.
NFR-2	<b>Security</b>	Cloud data must be contained within the network, collapsing to be real-time avoidance should be avoided, and the board will be monitored constantly.
NFR-3	<b>Reliability</b>	Hardware will be frequently tested.
NFR-4	<b>Performance</b>	The smart board must provide a better user experience and deliver the accuracy output.
NFR-5	<b>Availability</b>	All of the functions and the user demands will be provided, depend upon the customer needs.
NFR-6	<b>Scalability</b>	The product is based on road safety and should cover the entire highway system.