

Project Design Phase-II

Solution Requirements

(Functional & Non-functional)

Team ID	PNT2022TMID22491
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. Red light can be bright than others due to higher wavelength
FR-2	User Need	The smart sign boards should be placed frequently in places it is needed and less in

		places where it is not needed much to avoid confusion for the user during travel. It is vital that drivers are aware of their own limitations
FR-3	User Understanding	For better understanding of the driver, the sign should be big, clear and legible and it can also include illustrations 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	Usability	It should be able to Upgrade and Update when there is a need for it.
NFR-2	Security	It should have good security system so that no other person is able to hack and

		<p>display their own directions.</p> <p>The technology enables you to control traffic, catch the lawbreakers, and provide road safety.</p>
NFR-3	Reliability	<p>It should be able to display to information correctly and error-free.</p>
NFR-4	Performance	<p>It should be able to automatically update itself when certain weather or traffic problem occurs.</p>
NFR-5	Availability	<p>It should be available 24/7 so that it can be beneficial to the customer i.e the driver.</p>