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

Date	03 October 2022
Team ID	PNT2022TMID10209
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	• Informations can be written in short form in the sign boards so that it can be very easily captured by drivers. • Place sign boards on popular places. • Symbols can be used so that drivers can save some amount of time in reading. • Static signs can be replaced by smart signs to reduce accidents.
FR-2	User convenience	• Display should be larger which can be visible from far distance.
FR-3	User need	• Awareness programmes should be conducted to bring awareness among the users about road safety. • Road safety education is essential for users.

Non-functional Requirements:

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

NFR-4	Performance	• Pre-functional record of voice record along with LED display provide in waiting time at traffic signs. • There is a rain drop sensor which checks whether there is a rain, to transmit data over IOT helps to display on LED along with wifi connection of internet changing data dynamically with current reporting of event sensing flow of data

NFR-5	**Availability**	• Monitors the road events even in low light on poor weather conditions.
		• Record traffic offenses
NFR-6	**Scalability**	• It is user friendly interface.
		• Data accessibility is easy from source.