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

Date	06 November 2022
Team ID	PNT2022TMID23936
Project Name	Project - 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	• Implementing crystal clear display boards • Showing warning signs on the display • Blinking light system to attract driver's attention • Traffic light signal countdown on display
FR-2	User Interaction	• Alert notification system • Manual crossing button • Manual information display system
FR-3	Traffic Detection	• Implementing traffic detection system • Crossing based on traffic detection
FR-4	Communication	• Weather alert based on location • Traffic diversion based on detection

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It should convey the right message to user and to save the customer's travel time.
NFR-2	**Security**	The manual information button should be secured with a key to prevent misinformation.
NFR-3	**Reliability**	It should convey the updated message on time and to build with service quality.
NFR-4	**Performance**	Display should be dynamically updated over cloud communication.
NFR-5	**Availability**	It should available 24/7 service with risk management measures.
NFR-6	**Scalability**	It should consume server space based on the usage and extend server space based on demand.