

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

Date	02 November 2022
Team ID	PNT2022TMID23925
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	<ul style="list-style-type: none">Implementing crystal clear display boardsShowing warning signs on the displayBlinking light system to attract driver's attentionTraffic light signal countdown on display
FR-2	User Interaction	<ul style="list-style-type: none">Alert notification systemManual crossing buttonManual information display system
FR-3	Traffic Detection	<ul style="list-style-type: none">Implementing traffic detection systemCrossing based on traffic detection
FR-4	Communication	<ul style="list-style-type: none">Weather alert based on locationTraffic 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.