

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

Date	03 October 2022
Team ID	PNT2022TMID18146
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 Requirements	Traditional signs are replaced with digitalized sign boards which meets all the criteria.
FR-2	User Registration	The registration can be done via website or form or Gmail or LinkedIn
FR-3	User Conformation	The conformation can be done by phone calls, OTPs and Gmail.
FR-4	Payment Options	Payments can be done by bank transfers or net banking.
FR-5	Product delivery and installation	The installation will be depend on the road length and the condition of the road.
FR-6	Product feedback	Feedback can be given via forms, Gmail or websites.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Should be convenient, easy and dynamically change according to the users.
NFR-2	<b>Security</b>	The Safe System approach to road safety emphasizes safety-by-design through ensuring safe vehicles, road networks, and road users.
NFR-3	<b>Reliability</b>	High reliable and should convey the traffic information correctly.
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"><li>• Should update dynamically whenever the weather or traffic values are updated.</li><li>• Cost efficient</li><li>• Better Traffic Management and Safety and prevent accidents.</li></ul>
NFR-5	<b>Availability</b>	This will be working 24/7 even in extreme weather conditions.
NFR-6	<b>Scalability</b>	It can be moved from a smaller to a larger operating system and the larger number of users that could be handled.