

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

Date	18 October 2022
Team ID	PNT2022TMID19266
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	Sign boards should be built with LEDs that are colourful and brilliant in order to catch drivers' attention, but they shouldn't be too distracting or dazzling because that could cause accidents.
FR-2	User Need	To reduce user confusion when travelling, smart sign boards should be put more frequently where they are needed and less frequently where they are not.
FR-3	User Understanding	The signs should be big, clear, and legible to help the motorist understand them. They can also incorporate images to help the driver understand the instructions even better.
FR-4	User Convenience	The display ought to be large enough to be readily visible even from a distance.
FR-5	User Confirmation	Phone Confirmation, Email confirmation, OTP authentication.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Will offer a self-explanatory product that is easy to use and clear product instructions.
NFR-2	Security	Cloud data needs to stay within the network, collapsing needs to be avoided in real time, and the board will be closely watched at all times.
NFR-3	Reliability	Hardware will undergo regular testing.
NFR-4	Performance	The user experience on the smart board must be improved, and the output must be accurate.
NFR-5	Availability	Depending on the requirements of the client, all features and user requests will be met.
NFR-6	Scalability	It should be simple to modify and update in response to changes in requirements and needs.