

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

Date	20 October 2022
Team ID	PNT2022TMID01100
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 Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Product feedback	Product feedback will be get through an specialised app or through the messaging through the specific app
FR-4	Installation cost	The cost is depend on the number of digital boards installed across the state or country.
FR-5	User requirements	The old board is replaced with the new digital board along with the weather indicator
FR-6	electricity	The electricity need to supplied to the digital signboards endlessly to make them active till it dies.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Every user can easily use the digital board with the basic knowledge they have and predict the weather condition they have to be.
NFR-2	<b>Security</b>	The digital sign board is controlled by an advanced hardware and software and it is connected to the cloud which make them more safety and it is easy to hack.
NFR-3	<b>Reliability</b>	The digital board of both software and hardware is tested in certain period of time to maintain its reliability
NFR-4	<b>Performance</b>	The performance of the digital sign board is standard and good when compared to old native painting method. The weather indicated is more accurately detected by the sensor which receive from satellite

NFR-5	<b>Availability</b>	It is available through every situation when the customer thinks it is needed in both aspect such as weather condition and road safety signs.
NFR-6	<b>Scalability</b>	It is widely used in entire roads such as SH and NH to the customer convenience and safety regarding signs and cover the entire highways