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

Date	04 October 2022
Team ID	PNT2022TMID29129
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 Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Approval	Approval via Email Approval via SMS
FR-4	Testing	Test API and UI
FR-5	Result	Result is determined by product features

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Continuous sensing through sensors that simultaneously change the signs of the signboards.
NFR-2	**Security**	Robust security system must be used to prevent hackers from accessing the IoT based system.
NFR-3	**Reliability**	For people to make the best decisions while travelling on the road without confusion, the Signs displayed on the board must be clear and precise.

NFR-4	**Performance**	High performance and affordable pricing are both required. The sign board should be clearly visible and placed in correct place so that it helps in preventing accidents
NFR-5	**Availability**	Sign boards must operate 24x7, so appropriate power supplies or batteries should be provided.
NFR-6	**Scalability**	To be used to control and prevent accidents in highly populated areas.