Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	03 October 2022
TeamID	PNT2022TMID30265
ProjectName	Signs with Smart Connectivity for Better Road Safety
MaximumMarks	4Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FRNo.	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 Visibility	•Sign Boards should be made of bright coloured LEDs capable of attracting driver's attention.
FR-4	User Understanding	•Display should be big enough to display all the signs correctly so that it is understand able even to far away drivers.
FR-5	Information delivering time	•The accident information should be delivered before certain distance then only the driver can change the route of destination.
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Non-functional Requirements:

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

FRNo.	Non-Functional Requirement	Description
NFR-1	Usability	 Product that is simple to use. It can be used and understandable by all people without any predefined training.
NFR-2	Security	•A robust security system must be used so that no hackers can enter with authorization into the IoT based system.
NFR-3	Reliability	•For high reliability correct and authorized signs should be displayed.

NFR-4	Performance	 Automatic updation should be done incase of sudden accidents and weather changes.
NFR-5	Availability	 Signs boards mustwork 24/7, so proper power supply or battery should be given to the sign boards.
NFR-6	Scalability	•It should be implemented through the entire highway system.