<u>Project Design Phase-II</u> <u>Solution Requirements (Functional & Non-functional)</u>

Date	12 October 2022
Team ID	PNT2022TMID04551
Project Name	Signs with smart connectivity forbetter 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	Through google formsThrough mailThrough linkedinThrough facebook
FR-2	USER CONFIRMATION	Through verification mailsThrough OTP
FR-3	USER APPROVAL	Through mailsThrough phone callsThrough SMS
FR-4	USER TRANSACTION	Through net bankingThrough UPI
FR-5	TESTING	Testing through componentsTesting through API and UI
FR-6	END RESULT	End result through product featuresBy using the technology

Non-functional Requirements:

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

FR No. Non-Functional Requirement D	Description
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NFR- 1	Usability	 Situations never remain the same. Therefore there must be a constantcheck of the conditions prevailing and accordingly there must be changes made in these boards. Sign boards with caution or alerts must be placed well in advance sothat the drivers could be more alertwith the journey. The text content must be available indifferent languages to help the drivers. Boards must be large and clear
		forbetter visibility.

		 Sign boards should be bright coloured so that it catches thedrivers' sight. The illustrations or the symbols usedin the boards must be easily understandable.
NFR- 2	Security	 The security system should be strongenough that no one can modify it other than the authority. No one should be able to enter into the network to change, delete or manage the intimations or messages delivered through the sign boards.
NFR-3	Reliability	 There should not be any miscommunications or confusions regarding the messages displayed. Maximum accuracy must be ensured. All the information displayed must bechecked periodically and updated if any changes are needed for error- free intimation.
NFR- 4	Performance	 The efficiency and the accuracy ofthe information hence calculated should be maximum. It should be ensured that minimumamount of energy, time and cost is required for the operation.
NFR- 5	Availability	 These should be available anytimeand everywhere that is 24/7. Sign boards should be located in places which has direct view from theroad. It should not present amidst bushes, trees, building etc It should be properly monitored thatno sign boards are damaged, repaired or malfunctioning at any time. The sign boards should be made available only in places where theyare required the most. Frequent availability of boards may lead to confusion and mistakes.

NFR- 6	Scalability	 It should be easy to scale accordingto the requirement. It should be in such a way that the network at any time of period shouldbe ready to be expanded and implemented on a wider scale.
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