

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

Date	15 October 2022
Team ID	PNT2022TMID49499
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 Gmail Create an account Follow the instructions
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Infrared sensor	Predict the traffic in earlier is helpful to divert the people in another way
FR-4	Accessing datasets	Datasets are retrieved from Cloudant DB
FR-5	Web Application	Signboard and infrared sensor in the road can be controlled by web application

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The road safety system defines that this project helps people to free from accident and traffic
NFR-2	<b>Security</b>	It should have good security system so that no other person is able to hack and display their own direction.
NFR-3	<b>Reliability</b>	It should be able to display to information correctly and error-free.
NFR-4	<b>Performance</b>	It should be able to automatically update itself when certain weather or traffic problem occurs.
NFR-5	<b>Availability</b>	It should be available 24/7 so that it can be beneficial to the customer i.e the driver.
NFR-6	<b>Scalability</b>	Using weather Prediction in earlier stage that lead to help the people to slow down speed by indicating the sign and by knowing the accident or traffic jam before that leads to people take diversion other way. This solution will help to decrease the death rate up to 80%