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

Date	15 October 2022
Team ID	PNT2022TMID38378
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.

- ❖ A functional requirement defines a function of a system or its component, where a function is described as a specification of behavior between inputs and outputs.
- ❖ It specifies "what should the software system do?"
- ❖ It is mandatory to install the web app.
- ❖ Defined at a component level
- ❖ Usually easy to define
- ❖ Helps you verify the functionality of the software

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Web App Installation Register with Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Proof of Identity	Customers can register one mail account on their respective mobile.
FR-4	Credit Score and History	Purchaser has to get the premium package to access the information. Customers can check the history of the road signals.

Non-functional Requirements:

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

- ❖ A non-functional requirement defines the quality attribute of a software system.

- ❖ It places constraints on "How should the software system fulfill the functional requirements?"
- ❖ It is not mandatory
- ❖ Applied to the system as a whole
- ❖ Usually more difficult to define
- ❖ Helps you verify the performance of the software

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Customers can use the application in almost all web browsers. It will indicate the people through audio or notifications about road safety, and weather conditions.
NFR-2	**Security**	Customers are asked to create an account for themselves using their email which is protected with an 8-character-long password, making it more secure.
NFR-3	**Reliability**	Customers can raise their queries and will be replied with a valid reply, as soon as possible, making the application even more reliable and trustworthy.
NFR-4	**Performance**	Customers will have a smooth experience while using the application, as it is simple and well-optimized.
NFR-5	**Availability**	Application is available 24/7 as it is hosted on IBM Cloud
NFR-6	**Scalability**	In the future, maybe cross-platform mobile applications can be developed as the user base grows.