Project Design Phase-II

Solution Requirements (Functional and Non-functional)

Date	10 October 2022
Team ID	PNT2022TMID07534
Project Name	Project- Signs with Smart Connectivity for Better Road Safety

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement(Epic)	Sub Requirement(Story/Sub-Task)
FR-1	User Visibility	The World Health Organization has provided more detail on the need for visibility on the road in the World Report on road traffic injury prevention. visibility plays an important role at night, vehicles that run into the rear or sides of slowly moving or stationary vehicles during the day, angled or head-on collisions at all times, rear-end collisions that occur in poor weather conditions
FR-2	User Understanding	A combination of knowledge, skill and attitude is required to be a safe driver. • Knowledge of traffic rules and driving practices that help traffic move safely. • Skill to care about the safety of others on the road. We all are responsible for avoiding accidents. • Attitude to cooperate with other drivers to keep traffic moving safely.
FR-3	User Convenience	The display should be big enough that it should even be visible from far distance clearly.

Non-Functional Requirements:

Following are the Non-Functional Requirements of the proposed solution

FR No.	Non-Functional Requirements	Description
NFR-1	**Usability**	Easy update and upgrade makes it usable when needed
NFR-2	**Security**	Security assures all data inside the system or its part will be protected against malware attacks or unauthorized access
NFR-3	**Reliability**	Reliability specifies how likely the system or its element would run without a failure for a given period of time under predefined conditions.
NFR-4	**Performance**	Performance requirements may describe background processes invisible to users, e.g. backup.
NFR-5	**Availability**	Availability describes how likely the system is accessible to a user at a given point in time.
NFR-6	**Scalability**	Scalability assesses the highest workloads under which the system will still meet the performance requirements. There are two ways to enable your system scale as the

		workloads get higher: horizontal and vertical scaling.
NFR-7	**Portability**	Portability determines how a system or its element can be launched within one environment or another. It usually includes hardware, software, or other usage platform specifications.
NFR-8	**Compatibility**	Compatibility, as an additional aspect of portability, defines how a system can coexist with another system in the same environment