

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

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| Date | 15 October 2022 |
| Team ID | PNT2022TMID33963 |
| 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.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|---|
| FR-1 | User visibility | visibility refers to a motorist's capacity to clearly see the traffic and environmental surroundings on the road while maintaining the ability for other drivers to perceive the driver in question |
| FR-2 | User need | Road safety education is as essential as any other basic skills of survival.our aim is to provide road safety information for road users to encourage safer road user behaviour among current and prospective road users and reduce the number of people killed and injured on our roads every year |
| FR-3 | User understanding | Road traffic safety refers to the methods and measures used to prevent road users from being killed or seriously injured |
| FR-4 | User convenience | Passive traffic safety measures sought to avoid influencing the behavior of drivers while giving automobiles maximum convenience |
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Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | It should be able to update and upgrade when there is a need for it |
| NFR-2 | Security | Avoid riding with a driver who appears intoxicated irrational or over tired.Always ride in the back seat of a taxi cab.Wear seat belts whenever possible |

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| NFR-3 | Reliability | It should be able to display to information correctly and error free |
| NFR-4 | Performance | Performance review assesses the current road safety situation helps the Government to identify the most critical safety aspects and recommends actions to be taken |
| NFR-5 | Availability | It should be available 24/7 so that it can be beneficial to the customer |
| NFR-6 | Scalability | It should be able to easily change and need in requirement |