# Project Design Phase-II

## Solution Requirements (Functional and Non-functional)

| Date | 10 October 2022 |
|---|---|
| Team ID | PNT2022TMID24762 |
| 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 | Sign Boards should be made with LED's which are bright colored and are capable of attracting the drivers attention but it should also not be too distracting or blinding cause it may lead to accidents. |
| FR-2 | User Understanding | For better understanding of the driver, the signs should be big, clear and legible and it can also include illustrations which will make it easily understandable to the driver. |
| 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** | It should be able to Upgrade and Update when there is a need for it. |
| NFR-2 | **Security** | It should have good security system so that no other person is able to hack and display their own directions. |
| NFR-3 | **Reliability** | It should be able to display to information correctly and error-free. |
| NFR-4 | **Performance** | It should be able to automatically update itself when certain weather or traffic problem occurs. |
| NFR-5 | **Availability** | It should be available 24/7 so that it can be beneficial to the customer i.e the driver. |
| NFR-6 | **Scalability** | It should be able to easily change and upgrade according to change and need in requirement. |