

Project Design Phase-II

Solution Requirements (Functional and Non-functional)

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| 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 | Road signs provide information to drivers to help them operate their vehicles safely. To be effective, road signs must be visible and legible at a sufficient distance to allow drivers to take appropriate actions. However, static road signs are frequently missed by drivers making it difficult for them to respond in time. |
| FR-2 | User Understanding | While driving, you should carry your driving licence, registration certificate, insurance certificate and pollution control certificate. Transport and commercial vehicle drivers should carry the permits and vehicle fitness certificates also. |
| 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 | Avoids hacking and enable secured information |
| NFR-3 | Reliability | Error free accurate information is displayed |
| 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. |