**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 22 October 2022 |
| Team ID | PNT2022TMID08042 |
| 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.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Sign boards should be made with LEDs that are brightly coloured and capable of attracting the attention of drivers, but they should not be too distracting or blinding as this may lead to accidents. |
| FR-2 | User Understanding | The signs should be large, clear, and legible in order for the motorist to comprehend them, and they can also incorporate images. |
| FR-3 | User Convenience | The signs should be large, clear, and legible in order for the motorist to comprehend them, and they can also incorporate images. |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | When necessary, it should be able to upgrade and update. |
| NFR-2 | **Security** | When necessary, it should be able to upgrade and update. |
| NFR-3 | **Reliability** | It should be able to show information appropriately and without errors. |
| NFR-4 | **Performance** | It should be able to update itself automatically when a weather or traffic problem happens. |
| NFR-5 | **Availability** | It should be accessible 24 hours a day, seven days a week in order to benefit the consumer, i.e. the driver. |
| NFR-6 | **Scalability** | It should be simple to update and upgrade in response to changes in the requirements. |