Project Design Phase - I Proposed Solution Template

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| Date | 22 September 2022 |
| Team ID | PNT2022TMID24784 |
| Project Name | Project - Signs with smart connectivity for better road safety |
| Maximum Marks | 2 Marks |

Signs with smart connectivity for better road safety :

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | Smart connected sign boards are used to replace static signboards. These intelligent connected sign boards update automatically and obtain the speed restriction from a web application utilizing weather API.  The speed may increase or decrease in response to changes in the weather. The display of the diversion signs depends on the flow of traffic and potential fatalities. The appropriate guide, warning, and service signs are also posted at hospitals and restaurants. With the use of buttons, many operating modes can be chosen. |
| 2. | Idea / Solution description | Creating a smart sign using IOT as opposed to a standard sign that is put on the road. IOT and LED are employed in the construction of smart signs. |
| 3. | Novelty / Uniqueness | Since LEDs are utilized, they may be seen from a distance. Temperature, humidity, and wind speed are all included in the smart signs. These details come from a weather tracking app. Additionally, it provides users with information on surrounding facilities like hospitals, schools, and other establishments so that they can base their speed decision on that information. |

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| 4. | Social Impact / Customer Satisfaction | The causes of the diversion will be shown. Pedestrians do not need to wait to cross the street if there is no traffic. Customer can arrive at the desired location earlier than anticipated |
| 5. | Business Model (Revenue Model) | The government's execution of these for regular citizens is a fantastic attempt to raise awareness among the populace. The government can set up a distinct budget for this, which creates the foundation for a safer environment. |
| 6. | Scalability of the Solution | It has a better possibility of lowering risk because it is more obvious than typical indications, perhaps saving many lives. |