Project Design Phase-I Proposed Solution Template

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID23663 |
| Project Name | Project – Signs With Smart Connectivity For  Better Road Safety |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | In present Systems the road signs and the speed limits are Static. But the road signs can be changed in some cases. We can consider some cases when there are some road diversions due to heavy traffic or due to accidents then we can change the road signs accordingly if they are digitalized. This project proposes a system which has digital sign boards  on which the signs can be changed dynamically. |
| 2. | Idea / Solution description | This project proposes a IOT Based Smart Vehicle Monitoring system(SVMS). Using IOT Radio-Frequency Identification Device(RFID), GPS, GSM, WIFI, WSN Networks Eye Blink Sensor, Acceleration Sensor, Gyroscope Sensor, Impact Sensor, Cloud Computing. Basically sensors and electronics are connected to each other and transmitting data to one another  over the internet. |
| 3. | Novelty / Uniqueness | The uniqueness of our proposed project is IoT offers a unique blend of smart system which can connect identifiable devices through internet using a set of standard protocols. First, between vehicles-to vehicle that is based on connection between two or more nearby vehicles. Second, is vehicle-to infrastructure, it is a connectivity with the external infrastructure. Third, is vehicle-to-device, this includes connection with the hardware or  internal/external devices. |
| 4. | Social Impact / Customer Satisfaction | Using this project, drivers and  receive information about their status (colour and when they will change), which reduces the  number of accidents and improves circulation. |
| 5. | Business Model (Revenue Model) | This project is not only for better road safety, Smart connectivity technology can be used in network through protocols that automatically identify what things are (deep learning  technology), and validate, confirm, and route |

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|  |  | transactions (Blockchain technology) within the network. |
| 6. | Scalability of the Solution | The main advantage of this project is it’s IOT  based features which are very crucial to driverless cars and wireless digital traffic sign  post. |