Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID49512
Project Name	IOT- 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.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Arun is an car driver, he needs to control the vehicles speed by using NFC technology to avoid the accidents.
2.	Idea / Solution description	 Using magnetic sensor for detection of vehicle count properly. To develop a protocol between sensor nodes for communication traffic congestion. Near Field Communication (NFC) tag must be placed in all vehicles.
3.	Novelty / Uniqueness	 Near Field Communication(NFC) is a technology that use for the purpose of identication and tracking using radio waves. NFC tags are passive devices that can be used to communicate with active NFC devices. NFC reader reads the data from NFC tags.
4.	Social Impact / Customer Satisfaction	 Drivers can receive updated information on the road traffic, weather conditions and decreasing breakdowns and therefore prevent accidents. Reducing the rate of accidents. To provide more efficient travel to the peoples . It helps to reduce the accidental death rate.
5.	Business Model (Revenue Model)	 NFC technology deals with traffic offences and improvement of both active and passive vehicle safety to the customers. NFC tags are available in low cost and it gives the more satisfaction to the customers. Simultaneous multiple detection of vehicles are possible using NFC. This technology will improves better road safety performance to the society.

6.	Scalability of the Solution	*	Multi task convolution neutral network and ROI based system could be accelerated using the GPU,to improve efficiency.
		*	Ultrasonic sensor used to detect object distance and vehicles speed will control through object distance level.
		*	NFC technology brings more benefit to the customers satisfaction.