

Project Design Phase-I

Proposed Solution

Date	18 October 2022
Team ID	PNT2022TMID12941
Project Name	Signs with smart connectivity for better road safety
Maximum Marks	2 Marks

Proposed Solution:

S.NO	Parameter	Description
1	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> Traffic density increases in unexpected manner and people are getting caught in traffic unaware about the traffic. Also, emergency vehicles like ambulance, fire control vehicles etc. suffer due to traffic.
2	Idea / Solution description	<ul style="list-style-type: none"> The smart sign boards which indicate the traffic density in nearby junction and providing information about alternate route helps in avoiding further accumulation of vehicle and facilitates the drivers. This is achieved by using IOT device, IOT cloud platform. The sensor data is updated to IOT cloud platform, based on data the sign boards are updated.
3	Novelty / Uniqueness	<ul style="list-style-type: none"> Here, instead of updating in website, the traffic information is directly displayed in sign boards, facilitating people who can't be able to access internet.
4	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> This system is very much useful for emergency vehicles in order to avoid disasters. This also facilitates travellers who are new to the particular area.
5	Business Model (Revenue Model)	<ul style="list-style-type: none"> In business point of view, these sign boards can also be used as advertising boards. Though there is a huge investment, the demand for guidance and notification is high and this could encourage vendors to develop this kind of models.
6	Scalability of the Solution	<ul style="list-style-type: none"> It is expected to reduce further vehicle accumulation. This also ensures to help in some emergency situations.