

Project Design Phase-I

Date	11 October 2022
Project Name	Signs with Smart Connectivity for Better Road Safety
Batch	B3-3M5E
Team Id	PNT2022TMID07534

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	This project helps in providing safety for the passerby. It can be used to change the direction, speed, give warnings in case of emergency etc
2.	Idea / Solution description	IOT based application for better road safety
3.	Novelty / Uniqueness	Speed limit based on weather changes can be managed.
4.	Social Impact / Customer Satisfaction	When there is a lot of traffic the signboards are used to show a different direction for the vehicle to go Disaster updates can also be shown on them.
5.	Business Model (Revenue Model)	At first these signboard can be used for free, as the demand grows after getting the reviews of the public it can be used commercially.

6.	Scalability of the Solution	<p>It saves time for the drivers.</p> <p>In the future, if any update is required either on the hardware or software side, it can be easily implemented. The hardware components can be directly interfaced with the microcontroller and small modifications can be made in the programming of the existing product. In case of the software, the website application has to be updated with the additional functionality by creating a new section for the updated hardware. So this will not affect the existing functionality of the product and new functionality can be easily integrated. In addition, a separate circuit will be kept along with the hardware to detect any problem which informs the web application. Also a notification will be sent to the product service department.</p>
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