

Project Design Phase-I

Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID22491
Project Name	Signs with Smart Connectivity for Better road Safety

Proposed Solution Template

S.No.	Parameter	Description
1.	Problem Statement	<ul style="list-style-type: none">• To replace the static signboards, smart connected sign boards are used. Because,• These smart connected sign boards get the speed limitations from a web application using weather API and update it automatically.• Based on the weather changes the speed may increase or decrease gradually• Based on the traffic situations the diversion signs are displayed.• Guide (Schools), Warning and Service (Hospitals) signs are also displayed accordingly.
2.	Idea description	<ul style="list-style-type: none">• The weather and temperature details are obtained from the Open Weather Map API.• Using these details, the speed limit will be updated automatically with the weather conditions.• Also, details regarding any accidents and traffic faced on the particular road are obtained.• Based on this the traffic is diverted followed by a change in map path and the traffic is cleared.• Changing the warning signs, which are predefined and separate signs will be present for both school and hospital zones.

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3.	Novelty	<ul style="list-style-type: none"> Generic Sign board for all the applications that uses both buttons and webservice.
4.	Customer Satisfaction	<ul style="list-style-type: none"> If there is no traffic, can cross the street without waiting. Customer can reach the destination before the expected time
5.	Business Model	<ul style="list-style-type: none"> This product is aimed to be free of cost to the public, but the revenue will be generated by selling this product to the government at a low cost. So, there will be less accidents and the public will be aware of the accidents in the particular road. The public will also gain all the information about the road, even if they are checking for an alternate path.

