

Project Design Phase-I
Proposed Solution

Date	16 October2022
Team ID	PNT2022TMID17377
Project Name	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)	To avoid road accidents caused by collisions, over speeding of vehicles due to adverse weather conditions.
2.	Idea / Solution description	The project approach focuses on to digitalizing the already existing static signboards to smart signboards using a interface where people are able to see about weather the indications and such information .This information can be accessed from open weather map and we can display the updates on the user interface on a timely basis. The smart display gets the speed limitations from a web app using weather API and update periodically .Based on the weather changes ,the user is alerted on the suggested speed limits .
3.	Novelty / Uniqueness	Sign boards are converted to digital display where APIs and online services are integrated in new and interesting ways. OpenWeatherMap is an online service that provides global weather data, forecasts and historical weather data for any geographical location.
4.	Social Impact / Customer Satisfaction	Suggests the speed limits for the user to follow based on the weather which can be helpful in reducing any possible accidents .
5.	Business Model (Revenue Model)	It doesn't cost much for implementation (unless it is for use in a largescale),because we obtain the required information to display and integrate it with an interface which can be achieved by programming accordingly with the help of IOT .
6.	Scalability of the Solution	This project is highly feasible and can later on be further updated with other additional features as well .