## Project Design Phase-I Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID05676
IBM-Project-ID	IBM-Project-16505-1659616049
Project Name	Signs with Smart Connectivity for Better road Safety

## **Proposed Solution Template**

S.No.	Parameter	Description
1.	Problem Statement	To manlo on the static significants among connected sign bounds are used
		To replace the static signboards, smart connected sign boards are used.
		These smart connected sign boards get the speed limitations from a web app using weather API and update automatically.
		Based on the weather changes the speed may increase or decrease
		Based on the traffic and fatal situations the diversion signs are displayed.
		displayed.
		Guide(Schools), Warning and Service(Hospitals, Restaurant) signs are also displayed accordingly.
		Different modes of operations can be selected with the help of buttons.

2.	Idea description	The weather and temperature details are obtained from the OpenWeatherMap API. Using these details, the speed limit will be
		updated automatically in accordance with the weather conditions. Also,
		the details regarding any accidents and traffic congestion 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. So in the
		traffic sign board, some buttons will be placed which will be used to
		make it generic; where each button will be given a functionality such
		as changing the warning signs, which are predefined and separate
		signs will be present for both school and

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		hospital zones.By activating this button, either through the web application or the physical buttons, sign of the board can be changed accordingly, and the speed limit will also be set depending upon the zones. Also, the pedestrians are given an option to change the traffic signs if they want to cross the road. If the pedestrian presses the button that is present on the post at the end of the road, then the traffic will be analyzed immediately. Accordingly, the sign of the traffic signal will be changed. This inturn reduces the frequent changing of the traffic signs even if the pedestrians are not present.
3.	Novelty	Generic Sign board for all applications that uses both buttons and web service for updation  Pedestrians are given the access to request the sign change of the signal to cross the road
4.	Customer Satisfaction	Diversion reasons will be displayed  If there is no traffic, pedestrians can cross the street without waiting.  Customer can reach the destination before the expected time

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5.	Business Model	Since APIs are used to actively monitor the customer's environment,
		this project employs a business strategy in which revenue will be
		generated on the basis of the length of time in which the customers
		actively interact with the product.
		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 discrepancies or 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 because of some mishaps that happen on the roads and these functionalities will increase the value of the product in the global market.
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