

## **Smart connected Signs for Improved Road Safety**

Communicate vital information to drivers and pedestrians on the road, in work zones and in parking facilities with our conditional sensor messaging solutions. Display dynamic messages based on live inputs and change messages—on one sign or all of your signs— in under a minute.

In present Systems the road signs and the speed limits are Static. But the road signs can be changed in some cases. We can consider some cases when there are some road diversions due to heavy traffic or due to accidents then we can change the road signs accordingly if they are digitalized.

This project proposes a system which has digital sign boards on which the signs can be changed dynamically. By using the Weather Api we can get the weather reports based on which we can set the speed limit to particular area. If there is rainfall then the roads will be slippery and the speed limit would be decreased. There is a web app through which you can enter the data of the road diversions, accident prone areas and the information sign boards can be entered through web app. This data is retrieved and displayed on the sign boards accordingly. There are three switches through which you can switch the display to different modes.

Mode1: Displaying Speed Limit

Mode2: Display of Diversions, Alerts of Accident prone area

Mode3: Information sign boards

### **Hardware Requirements:**

- Node mcu
- Push Buttons
- Display

### Software Requirements:

- Arduino IDE
- HTML
- Java Script

### Block Diagram:

