

Abstract:

Now-a-days there are major accidents and risks due to poor road signs and road safety instructions. In order to provide better road safety we use signs with smart connectivity. In present systems the road signs and speed limits are static but the road signs can be changed in some cases. We can consider some cases when there are route diversions due to some repairing works, unfavorable climates and heavy traffic on roads then we can display the road signs according those varying parameters. This project proposes a system which has digital sign boards on which the signs can be varying dynamically. We have to develop a web app in which we can enter the data of road diversion, accidental zone and date sign board can be entered through the web app. These data is retrieved and displayed on the road sign board.

Problem statement:

In the existing system the road signs and speed limits are remain unchanged. If there is any possibility that a traffic jam may occur and the chance of getting accident, we can change the road signs accordingly if those road signs are digitalized.

Approaching better road safety:

The assessment of road network safety is multifaceted. Road inspection enables clear and direct observation of the road's state. We can consider some cases when there are route diversions due to some repairing works, unfavorable climates and heavy traffic on roads then we can display the road signs according those varying parameters. This project proposes a system which has digital sign boards on which the signs can be varying accordingly. Consideration of those road's data offers further insights into general safety assessment.

Social impacts:

Avoid accidents and risks due to poor road construction, speed limits can be controlled in the accident prone zones, thereby keeping the society always safe.