

## PROJECT DEVELOPMENT PHASE SPRINT – 4 (USN-7)

DATE	14 – NOVEMBER-2022
TEAM ID	PNT2022TMID42239
PROJECT NAME	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

### DESCRIPTION :

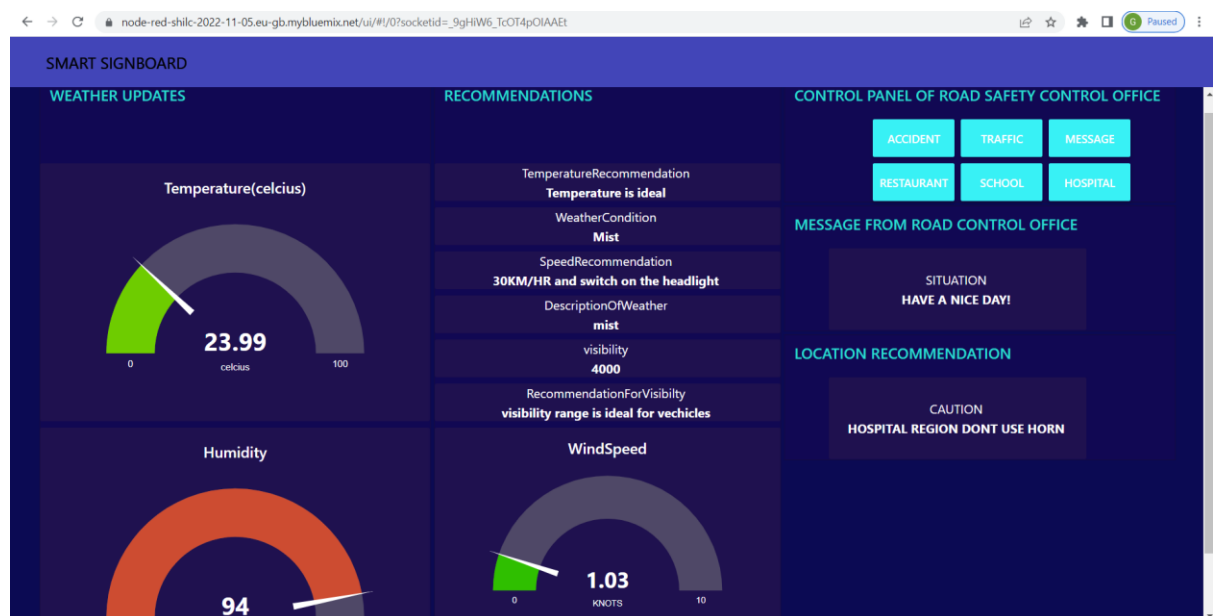
As in the project description it was explained to satisfy the following requirements

- REQUIREMENT 1 : 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.

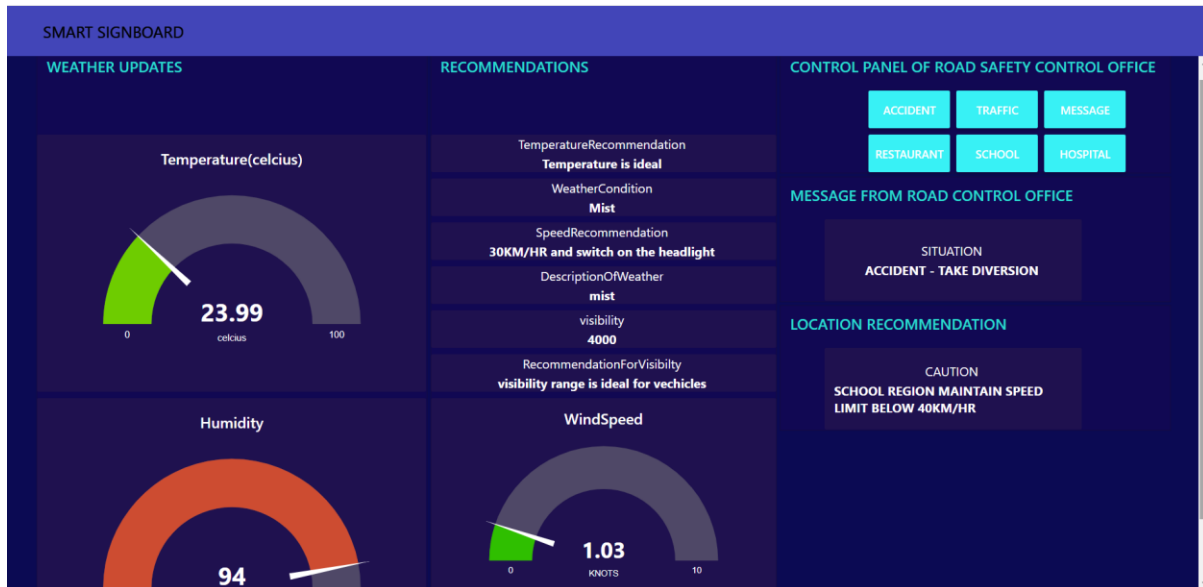
- REQUIREMENT 2 : Based on the traffic and fatal situations the diversion signs are displayed.
- REQUIREMENT 3 :Guide(Schools), Warning and Service(Hospitals, Restaurant) signs are also displayed accordingly.(Different modes of operations can be selected with the help of buttons)

**FINAL WEB UI (It was explained in following points with the given requirements)**



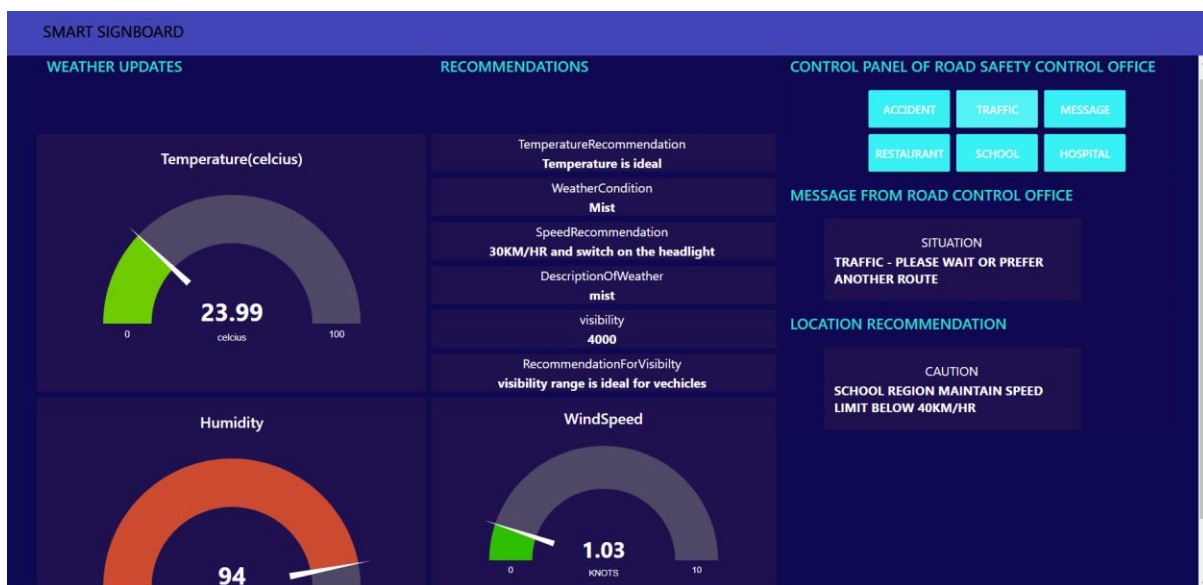
## REQUIREMENT 1:

As it was asked to get the weather updates form the “OPEN WEATHER MAP API” ,it was received and according to the rain the speed recommendations are given as the road may be slippery,and many weather recommendations also provided.

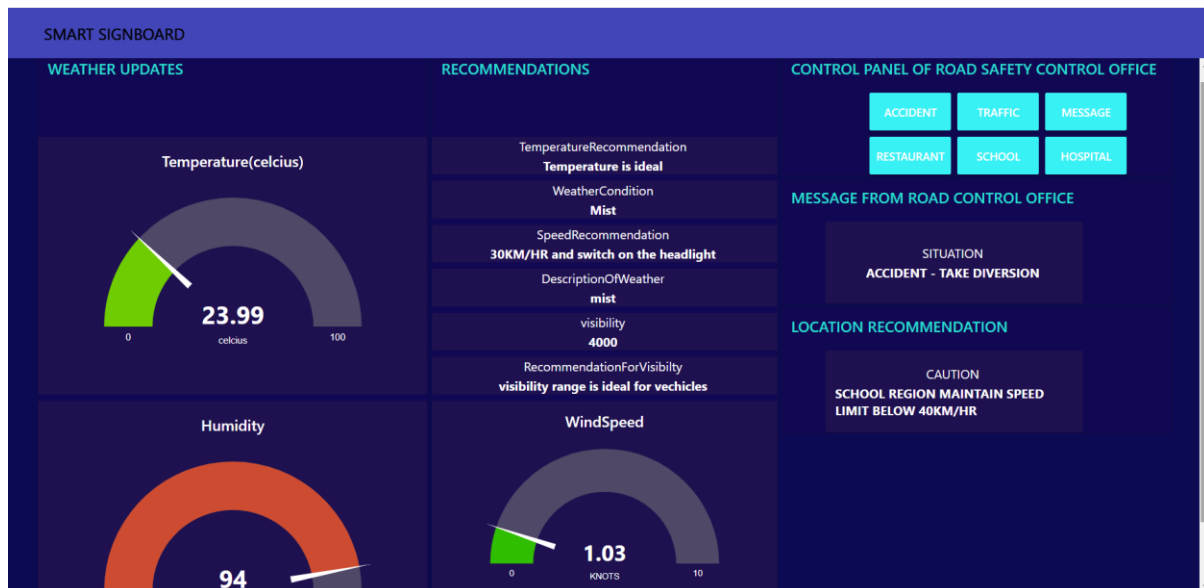


## REQUIREMENT 2 :

Based on the traffic and fatal situation the diversion signs are displayed by the control panel of the road safety office.(in picture traffic button was pressed)

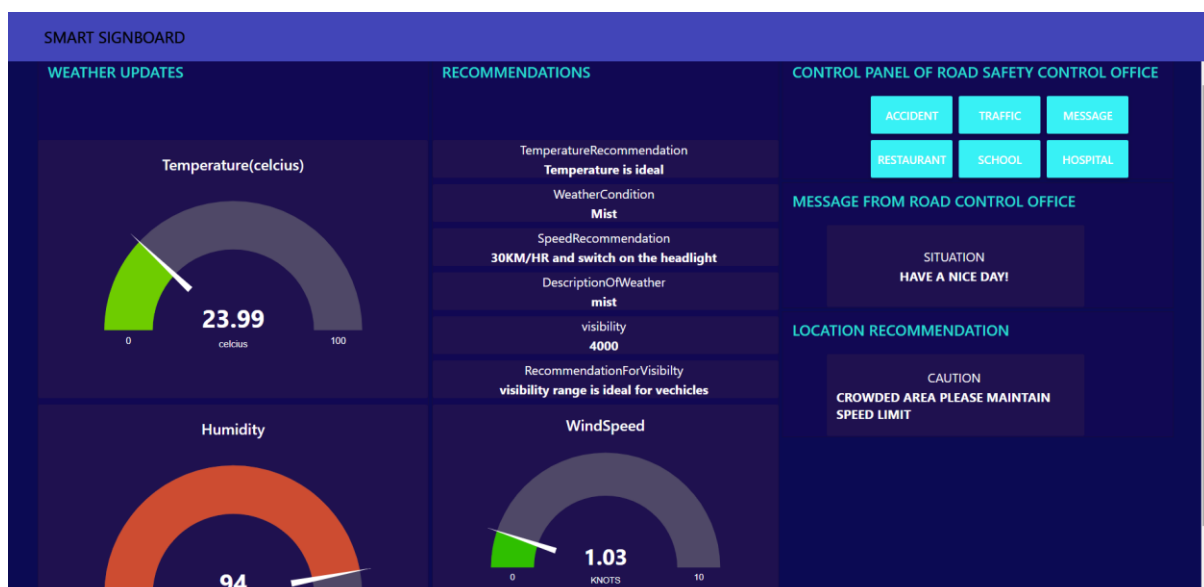


(for fatal situation eg. accident button was pressed by the road safety control office)

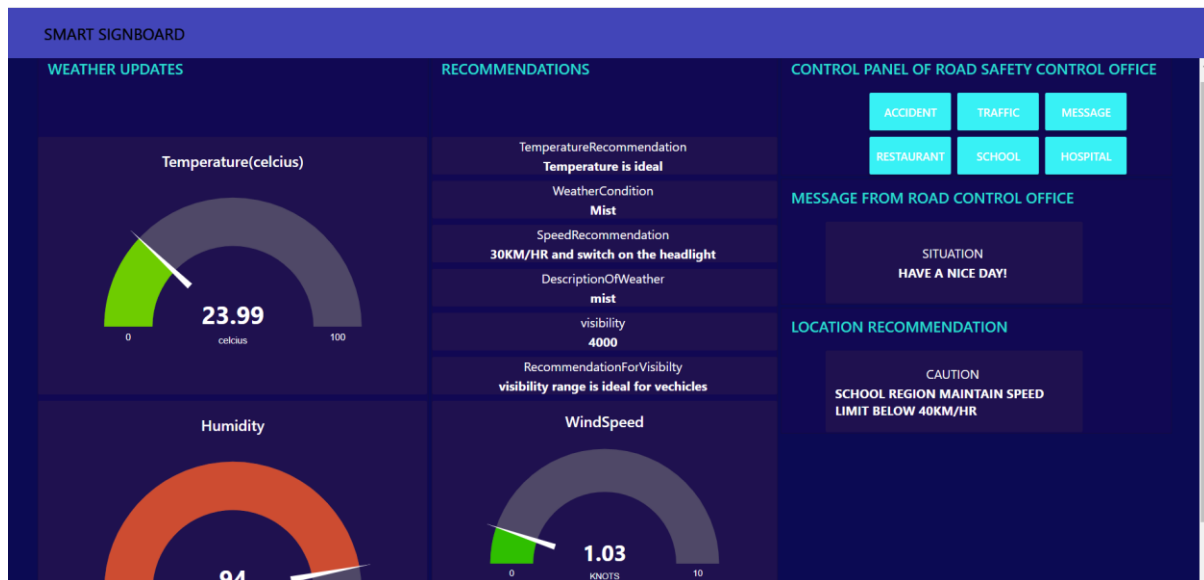


### REQUIREMENT-3

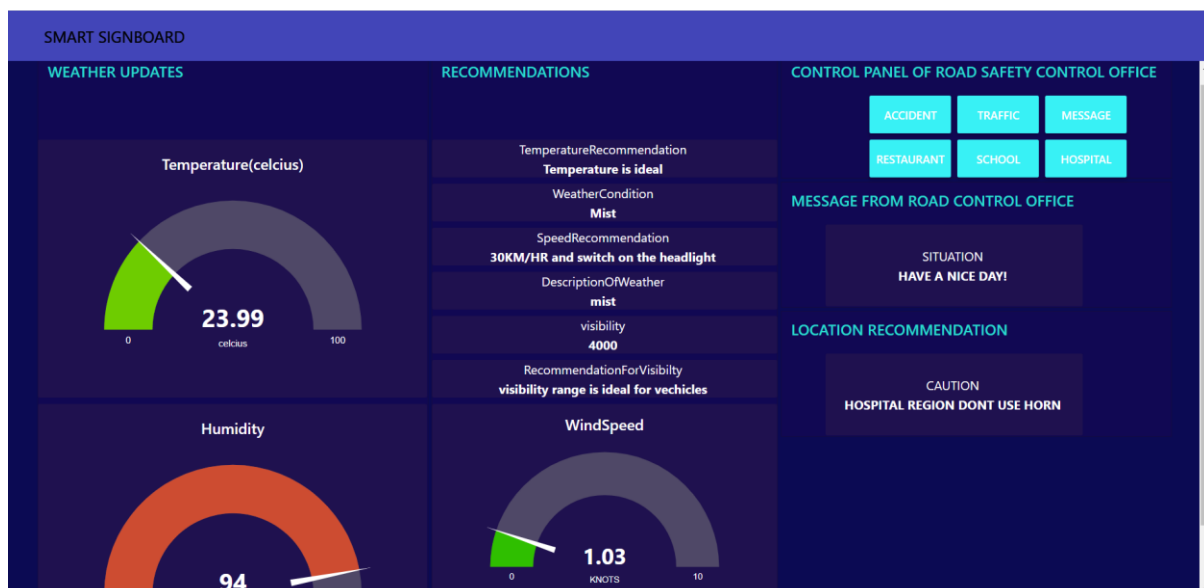
School, Hospital and Restaurant (ie crowded) areas are shown according to the location by pressing the button by the road safety control. (here RESTAURANT button was pressed)



(In the following picture school button was clicked(consider by road control office) for displaying speed limitation in school region)



(In the following picture HOSPITAL button was pressed(consider by road control office)) recommend us not to use HORN



## NODE RED :

