PROJECT OBJECTIVE

DATE	**15 NOVEMBER 2022**
TEAM ID	**PNT2022TMID42239**
PROJECT NAME	**SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY**

PROBLEM STATEMENT:

This project will replace static sign boards with smart connected sign board which was very useful for the user to acquire the road safety guidance. During rainy season the surface of the road is slippery so there is high range of occurring accidents. By using sign board it will the display speed limit to the user and so the occurrence of accidents will be reduced. In school zones can bring significant safety benefits by displaying the vehicle speed limit in sign board, so it reduces the fatal and injury crashes. In Hospital zones, it is advised not use horn because the patients who are being admitted to the hospital could not disturbed or affected by the noise of horns. With the help of sign board, it will display not use horn.

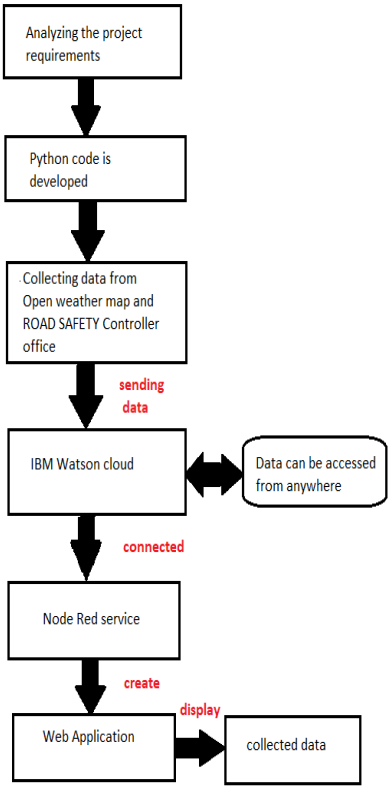
PROJECT OBJECTIVE:

- Gain knowledge from IBM Watson IoT platform, Open weather map API and Node red service.
- Connecting all IoT platforms such as IBM Watson, open weather map API and Node red service.
- Finally developing the web applications through the Node red applications for displaying the data.

PROJECT FLOW:

- Based on the requirements given in the project description, the python code is developed.
- In this python code consists of data collected from the Open weather map API and also from the ROAD SAFETY controller office.
- The collected data is sent to the IBM Watson cloud. So it can access from anywhere in the world.
- Then the sent data is connected to the node red using IBM Watson cloud.
- Web Application is created to display the collected data .

FLOW CHART:


Analyzing the project requirements
Python code is developed
Collecting data from Open weather map and ROAD SAFETY Controller office
sending data
IBM Watson cloud
Data can be accessed from anywhere
connected
Node Red service
create
display
Web Application
collected data