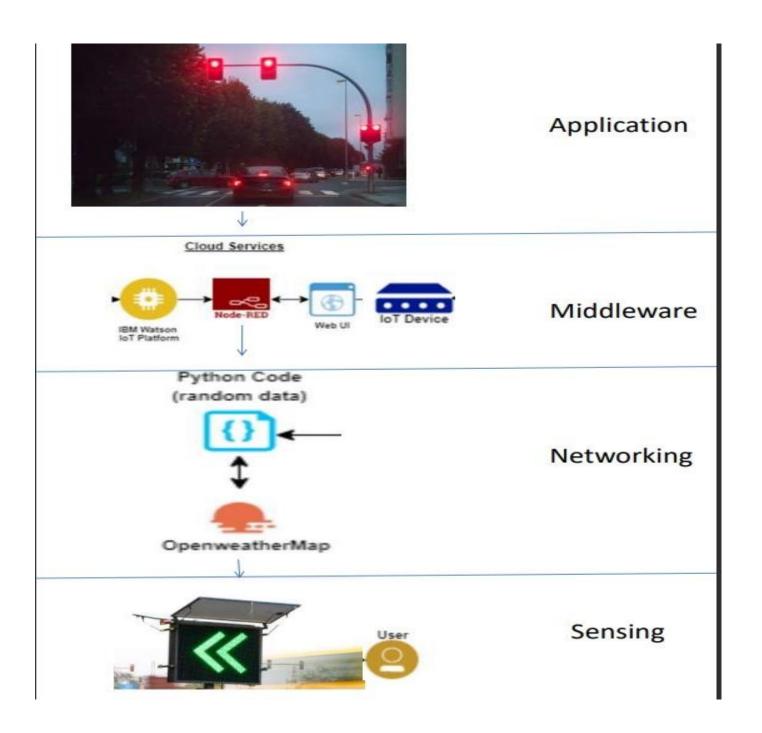
Technology Architecture

Date	15 October 2022		
Team ID	PNT2022TMID12612		
Project Name	Signs with Smart Connectivity for Better Road Safety		
Maximum	4 Marks		
Marks			



GUIDELINES:

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

Table-1: Application Characteristic

S.No	Component	Description	Technology
1.	User Interface	How user interacts withapplication e.g. Web UI, Mobile App.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
3.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud.
5.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.

Table-2: Application Characteristic:

S.No	Characteristics	Description	Technology
1.	Security Implementations	Strong security system that anyone without login credentials and hackersare not allowed to enter the network.	Firewall, Firebase, Gyber resiliency strategy
2.	Scalable Architecture	Easy to expand the operating range byincreasing the bandwidth of the network.	IOT, internet.
3.	Availability	Available anytime and everywhere 24/7as long as the user is signed into the network.	IBM Cloud
4.	Performance	Supports a large number of users to access the technology simultaneously.	IBM cloud