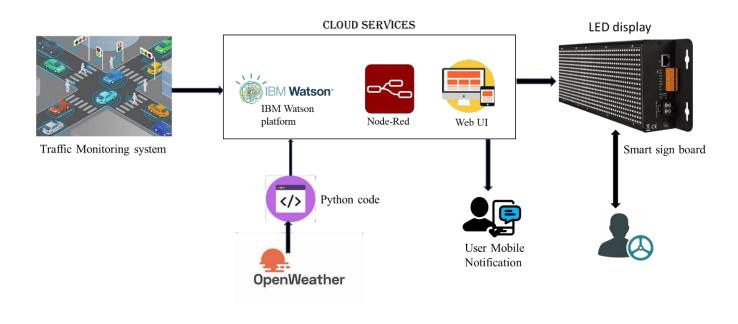
# Project Design Phase-II Technology Stack (Architecture & Stack)

Team ID	PNT2022TMID12069
Project Name	Signs With Smart Connectivity for Better Road
	Safety
Maximum Marks	4 Marks
Team members	Kamaraj J(1915018) Logesh S D(1915028)
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### **Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2



#### **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 or decrease.
- 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 of buttons.

## **Table-1: Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant

5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.	
	1	I	I	

6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.

# **Table-2: Application Characteristics:**

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