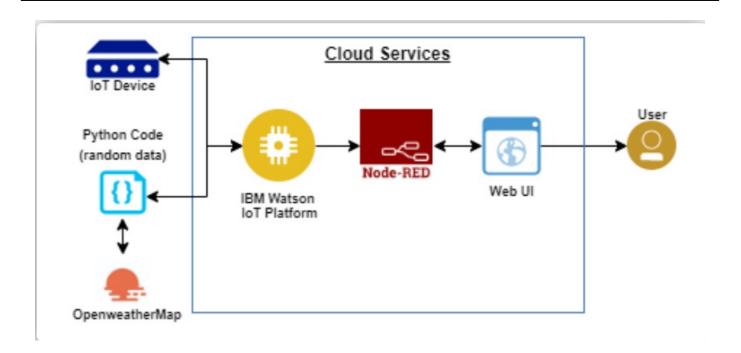
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID04551
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum Marks	4 Marks

GUIDELINES:

- To replace the static signboards, smart connected sign boards areused.
- 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.



S.N o	Component	Description	Technology	
1.	User Interface	How user interacts withapplication e.g. Web UI, Mobile App,Chatbot etc.	HTML, CSS, JavaScript /Angular Js / React Js etc.	
2.	Applicatio nLogic-2	Logic for a process in theapplication	IBM Watson STT service	
3.	Applicatio nLogic-3	Logic for a process in theapplication	IBM Watson Assistant	
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.	
5.	External API-1	Purpose of External APlused in the application	IBM Weather API, etc.	

Table-2: Application Characteristics:

S.N o	Characteristics	Descriptio n	Technology
1.	Security Implementatio ns	Strong security system that anyonewithout login credentials and hackers are not allowed to enter the network.	Firewall, Firebase,cyber resiliency strategy
2.	Scalable Architectur e	Easy to expand the operating rangeby increasing the bandwidth of the network.	IoT, internet.
3.	Availability	Available anytime and everywhere 24/7 as long as the user is signed into the network.	IBM Cloud
4.	Performance	Supports a large number of usersto access the technology simultaneously.	IBM cloud