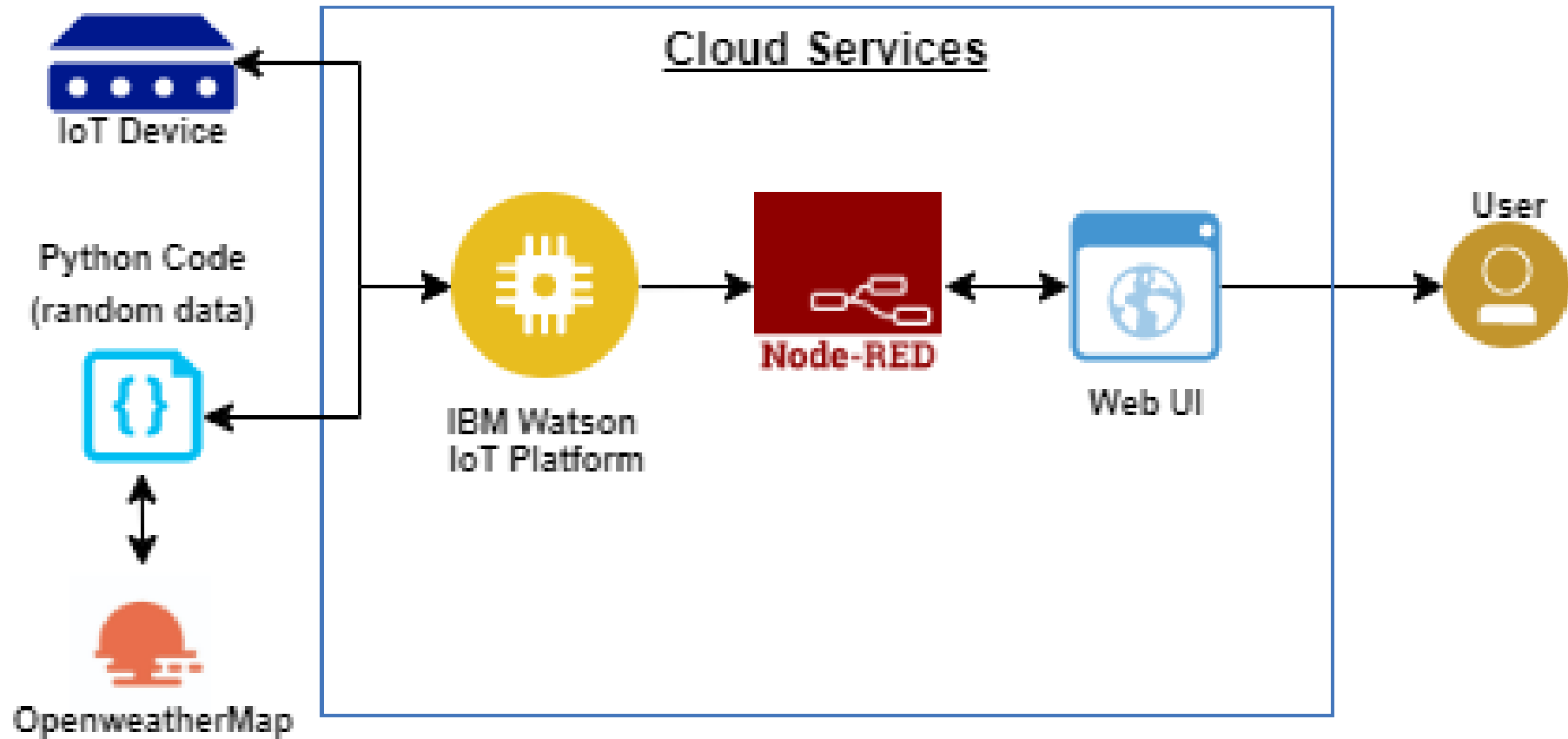


Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	10November2022
Team ID	PNT2022TMID39519
Project Name	Signs with smart connetivity for better road safety
Maximum Marks	4 Marks

Technical Architecture:



GUIDELINES :

- To replace the static signboards , smart connected sign boards are used.
- The smart connected signboards 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,restaurents)signs are also displayed accordingly.
- Different modes of operations can be selected with the help of buttons.

TABLE-1:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with Application eg. Web UI ,Mobile App etc..	HTML, CSS, JavaScript / Angular Js /React Js etc..
2.	Application Logic-2	Logic for a process in the Application	IBM Wattson STT service
3.	Application Logic-3	Logic for a process in the application	IBM Waattson Assistent
4.	Cloud Database	Database service on cloud	IBM DB2 , IBM Clouident
5.	Externel 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 Implimentations	Strong security system that anyone without login Credentials and hackers are not allowed to enter the network .	Firewall , Firebase ,Cyber Resilency strategy.
2.	Scaleble Architecture	Easy to expand the operating range by increasing 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 users to access the technology simultaneously.	IBM Cloud