

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

Date	16 October 2022
Team ID	PNT2022TMID28269
Project Name	Project – Signs with smart connectivity for better road safety
Maximum Marks	4 Marks

Technical Architecture:

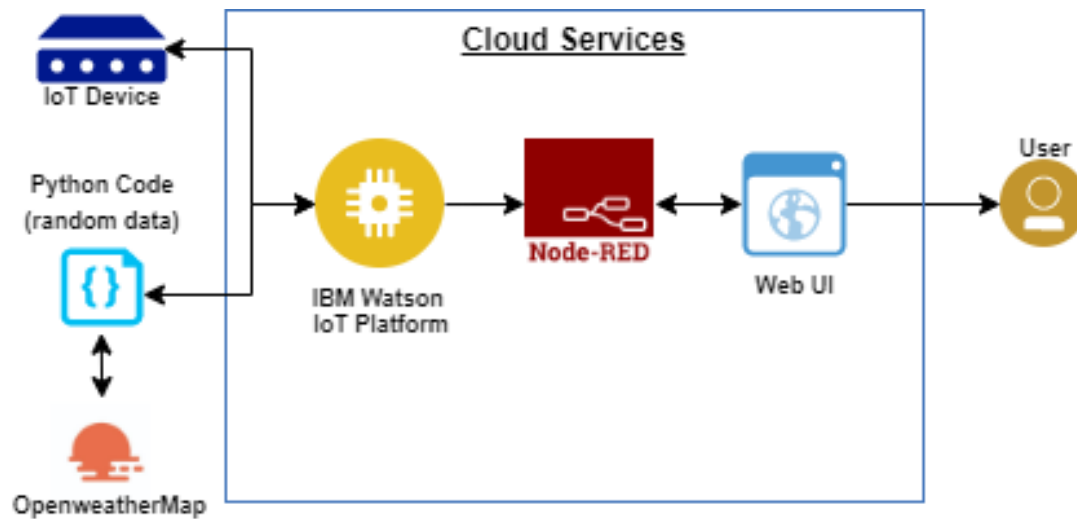


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface feature	How user interacts with application e.g. Web UI	HTML, CSS, JavaScript (Web application)
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service (Cloud)
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant (Cloud)
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	File storage requirements	Local Filesystem
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local Server Configuration: Local System Cloud Server Configuration: IBM Watson (Cloud)

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	List the open-source frameworks used	IoT devices,OpenweatherMap,IBM Watson,Node-RED,Web UI
2	Security Implementations	List all the security / access controls implemented,use of firewalls etc.	Encryptions,Decryptions
3	scalability	Justify the scalability of architecture	Python
4	Availability	Justify the availability of application	IBM Watson – Can easily be accessed
5	Performance	Design consideration for the performance of the application	Which should handle many requests without decrease in QOS