

Project Design Phase-II

Technology Stack (Architecture & Stack)

Team ID	PNT2022TMID13679
Project Title	Project-Signs with Smart Connectivity For Better Road Safety
Maximum Marks	4 Marks

Technology Architecture:

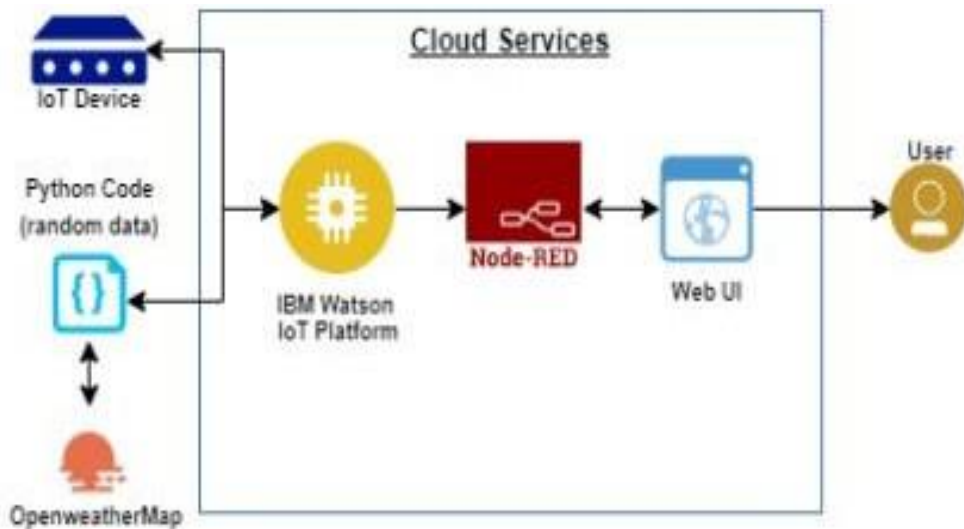


Table 1: Components and Technologies

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.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud 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.	Open-Source Frameworks	Open-Source software is that by which the source code or the base code is usually available for modification or enhancement.	Flask(python)
2.	Security Implementation	Strong security system that anyone without login credentials and hackers are not allowed to enter the network.	Firewall, Firebase, cyber resiliency strategy
3.	Scalable Architecture	Easy to expand the operating range by increasing the bandwidth of the network.	IoT, internet.
4.	Availability	Available anytime and everywhere 24/7 as Long as the user is signed into the network.	IBM Cloud
5.	Performance	Supports a Large number of users to access the technology simultaneously	IBM Cloud