

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

Date	19 October 2022
Team ID	PNT2022TMID12941
Project Name	Signs with smart connectivity for better road safety

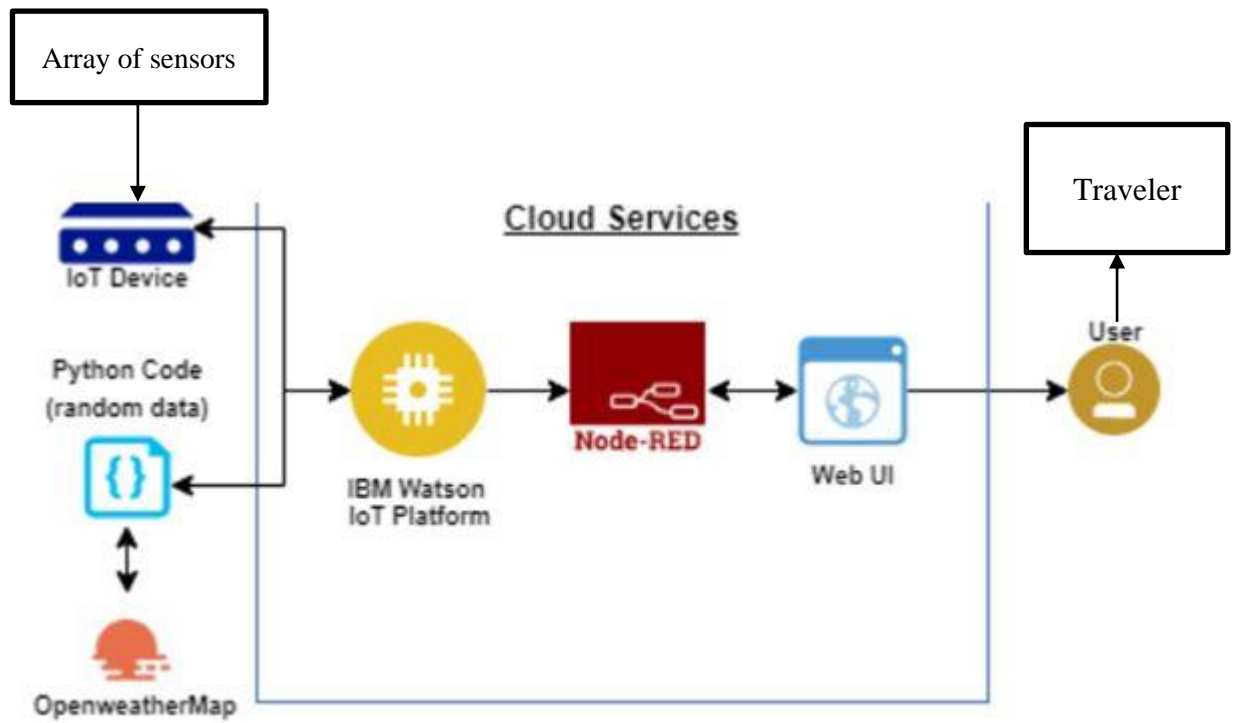


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	Sensors	Collection of data about traffic	Ultrasonic sensors, IR sensors etc.
2.	Application logic 1	Data collection from weather forecast website	Python
3.	Application logic 2	Data processing	IBM Watson
4.	Website	Data display	Web Ui

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Creating python code to extract data, setting up IoT devices, programming IoT devices, using a dashboard to display signs	IBM Watson, Node Red, Web UI
2.	Scalable Architecture	The application can load as many branches as there are logged in	IBM Watson, Web UI
3.	Availability	Application is offered 24/7	IBM Watson, Node Red, Web UI
4.	Performance	Frequent updation	IOT Device, IBM Watson, Node Red, Web UI