Technology Stack (Architecture & Stack)	
Team ID	PNT2022TMID22921
Project Name	Project-Signs with Smart Connectivity for Better Safety

Technical Structure:
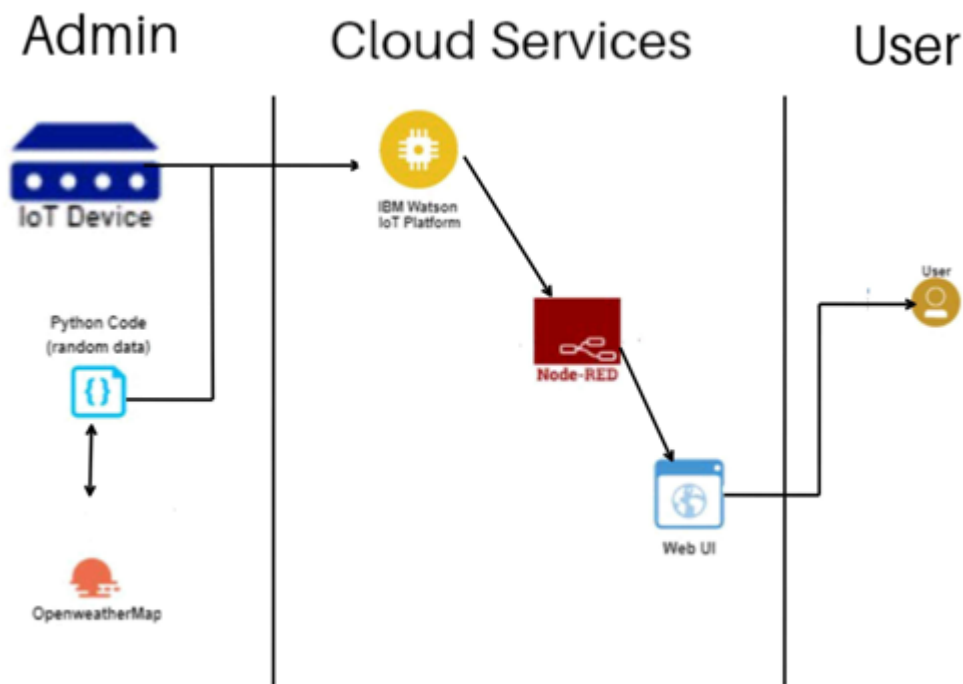
GUIDELINES:

• Smart Connectivity based signboards are used to replace static signboards.

• Based on situations, like high traffic, construction or branch on the road etc the diversion signs are changed.

• Sign boards in the vicinity of schools, hospitals, restaurants etc have signs displayed accordingly.

- Speed limitations can be sent through a web app, which gets weather conditions from weather API and changed in the signboards.

- Many different operation can be updated like finding the number of passengers in a vehicle, helps in finding stolen vehicles easily.

Table-1: Components & Technologies

S.NO	Component	Description	Technology
1	User Interface	In what way the user interacts with the application, in this case Web UI app	Javascript, HTML,CSS
2	Application Logic -2	A logic for the process in the application	IBM Watson STT Service
3	Application Logic-3	A logic for the process application	IBM Watson Assistent
4	Cloud Database	Cloud which has database service	IBM DB2,IBM Cloudant
5	External API-1	Purpose of external API in the application	IBM Weather API

Table-2: Application Characteristics

S.NO	Characteristics	Description	Technology
1	Security	A very strong security system	Firebase. Firewall, Cyber
2	Implementations	where no one will be able access without login credentials	resiliency strategy
3	Scalable Architecture	By increasing the bandwidth, the operating range can be increased	IoT,Internet
4	Availability	Available 24/7	IBM Cloud
5	Performance	It can support a large amount of users to access the technology	IBM Cloud