

PROJECT DESIGN PHASE II

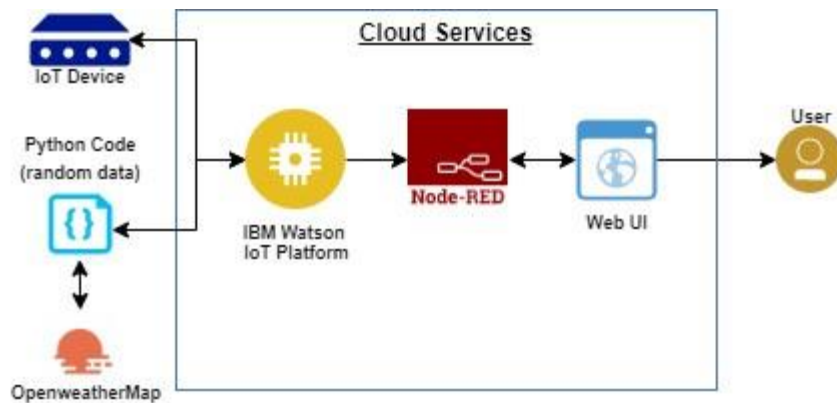
Technology Stack (Architecture & Stack)

Date	16 October 2022
Team id	PNT2022TMID24018
Project name	Signs with smart connectivity for better road safety
Maximum marks	4 marks

TECHNICAL ARCHITECTURE

SI.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User interface	How user interact with applications. Eg:.Web UI,Mobile App, Chatbot.	HTML,CSS,Python
2.	Application logic	Logic for a process in the application.	IBM Watson STT platform
3.	Application logic	Logic for a process in the application.	IBM Watson assistant

4.	Cloud database	Database service on cloud.	IBM DB2,IBM Cloudbant etc.
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GUIDELINES:

- To replace the static sign boards ,smart connected sign boards are used
- These smart connected sign boards get the speed limitations from a Web app based on the weather API and update continuously.
- Based on the traffic and fatal situations the diversion signs are displayed.
- Based on the weather changes the speed limit may vary.
- Signs are displayed according to the school ,hospital and restaurant site .

Table 1 : Components and Technology

5.	External API-1	Purpose of External API used in the application.	IBM Weather API etc.
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TABLE 2: APPLICATION CHARACTERISTICS:

SI.NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1.	Security implementation	Data displayed will be under control ,no one can have access without authentication.	Firewall,Firestore,Cyber resiliency strategy.
2.	Scalable architecture	More feature can be added in future and more sensors will be added which helps in the security purpose .	IoT
3.	Availability	This project is designed with 24 hours availability and the developer can have access anywhere at anytime.	IBM Cloud
4.	Performance	The performance will be more accurate with continuous updation of data to the relevant situation.	IBM Cloud