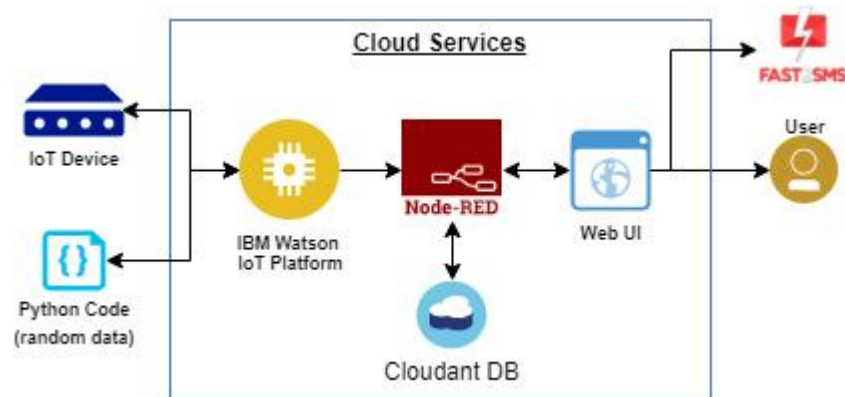


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID32732
Project Name	Project - Industrial specific Intelligent fire management system
Maximum Marks	4 Marks

Technical Architecture:



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interface with the Web UI	IBM IoT Platform, IBM Node red, IBM Cloud

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, ibm cloudant service, ibm node-red
4.	Application Logic-3	Develop python script to publish and subscribe to IBM IoT Platform	python
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage or other Storage Service or Local filesystem.
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / cloud Local Server Configuration: Cloud Server Configuration:	Cloud Foundry
9.	Protocol	How data exchanged on Web	HTTP

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Appypie app Inventor	Appypie
2.	Security Implementations	IBM Services	Encryptions , IBM Controls
3.	Scalable Architecture	Sensor – IOT Cloud based architecture	Cloud Computing and AI
4.	Availability	Mobile , Desktop, Laptop	Appypie app
5.	Performance	Detects the Fire , Temperature , Smoke	Sensors

