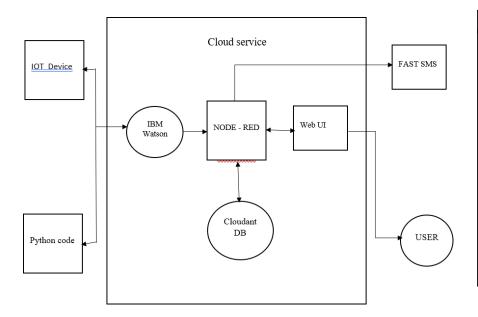
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	08-10-2022
Team ID	PNT2022TMID18424
Project Name	Gas Leakage Monitoring And Alerting System For Industries
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2



Guidelines:

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

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	Node-Red
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 Assistant
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use	e.g. SHA-256, Encryptions, IAM Controls,
		of firewalls etc.	OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-	Technology used
		services)	
4.	Availability	Justify the availability of application (e.g. use of load	Technology used
		balancers, distributed servers etc.)	
5.	Performance	Design consideration for the performance of the	Technology used
		application (number of requests per sec, use of Cache,	
		use of CDN's) etc.	