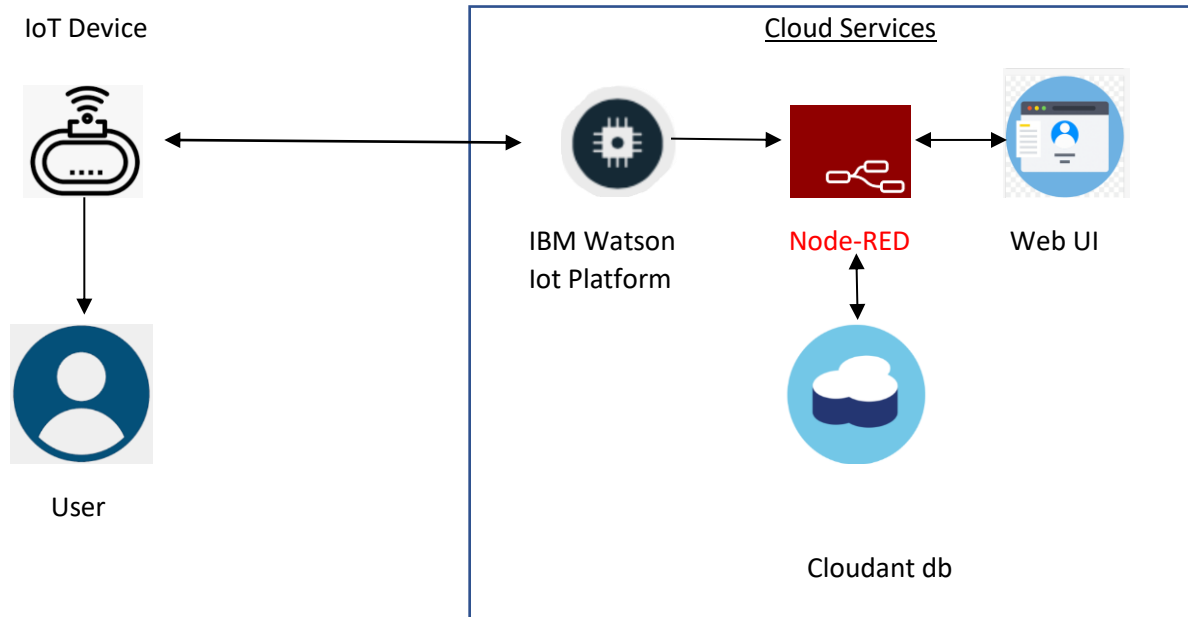# PROJECT DESIGN PHASE – II

Technology Stack (Architecture & Stack)

TEAM ID	PNT2022TMID12766
PROJECT NAME	Gas leakage monitoring and alerting system

IoT Device   Cloud Services

IBM Watson
Iot Platform   Node-RED   Web UI

User

Cloudant db

Table-1 Components & Technologies

S.No	Component	Description	Technology
1	User Interface	Mobile App	MIT
2	Application Logic-1	Gathering information about emission of gases	Python
3	Application Logic-2	Alarms	IBM Watson
4	Cloud Database	Cloud database service	Cloudant DB by IBM

Table-2 Application Characteristics

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Creating mobile applications, setting up IoT devices, programming IoT devices, storing data in the cloud	IBM Watson, Node Red, IBM Cloud, and Mit
2	Security implementations	Using encryption technology for security	SHA-256
3	Scalable architecture	The application can load as many members as they are logged in	IBM-Watson, Mit
3	Availability	Application offers 24/7 service	IBM Watson, Node Red, IBM Cloud, and Mit
4	Performance	Alerting with correct timing	Iot, Ibm, and Watson