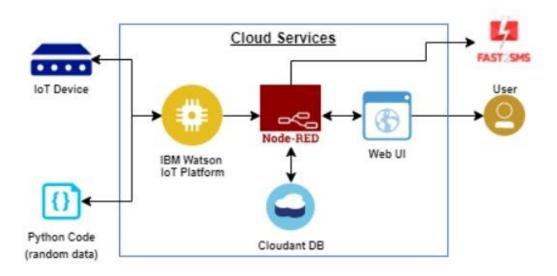
FINAL DELIVERABLES

Date	18 November 2022		
Team ID	PNT2022TMID21384		
Project Name	Gas Leakage monitoring & Alerting system		
Project Team Members	19D051 - MUKILAN T V		
	19D068 – RAGUL SHANKAR S		
	19D079 – SANTHOSH S		
	19D083 – SEEMAN CHAKKARAVARTHY V		

OBJECTIVE:

- The design of a sensor-based automatic gas leakage detector with an alert and control system has been proposed.
- This is an affordable, less power using, lightweight, portable, safe, user friendly, efficient, multi featured and simple system device for detecting gas.
- Gas leakage detection will not only provide us with significance in the health department but it will also lead to raise our economy, because when gas leaks it not only contaminates the atmosphere, but also wastage of gases will hurt our economy.
- The need for ensuring safety in workplaces is expected to be the key driving force for the market over the coming years.

FLOW OF THE PROJECT:



WAYS TO ACHIEVE THE PROJECT FLOW:

STEP 1:

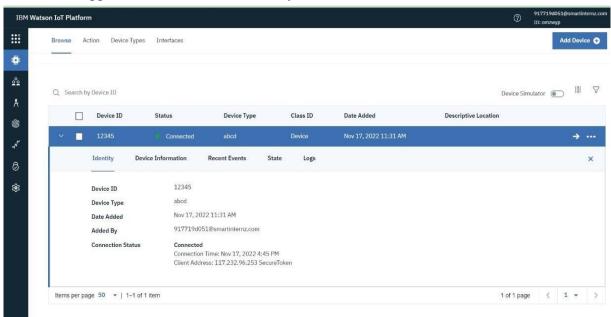
Python code:

Develop a python code for connection establishment between the compiler and the IOT cloud platform with the credentials in the Watson IOT platform.

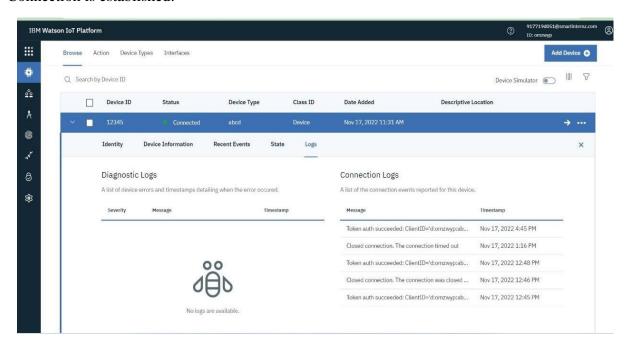
program output:

Step 2:

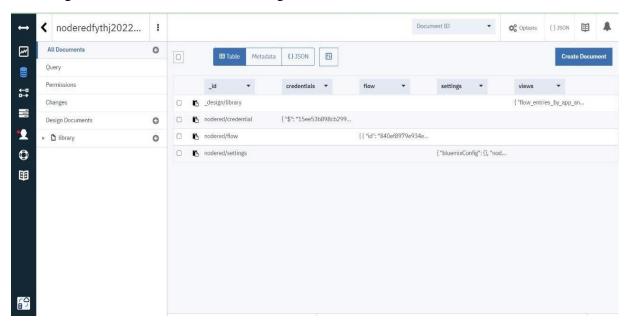
Create an IBM Watson Device and note down the credentials, after that create an App "Standard App" and node down the API key and Token.

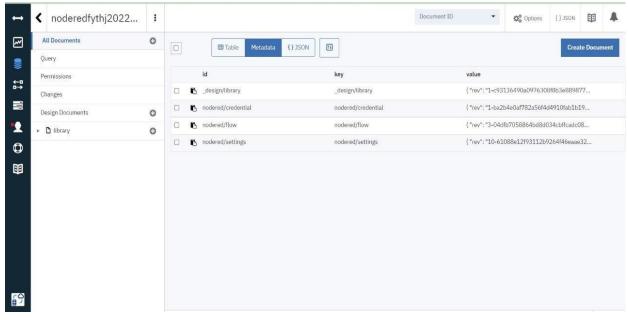


Connection is established:



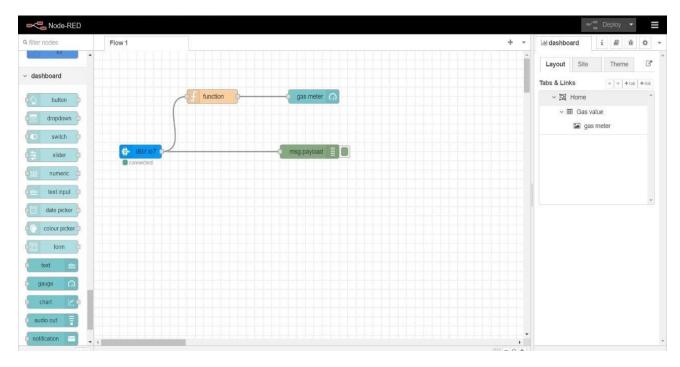
STEP 3:Storing data in IBM cloudant DB through node-RED functions.





STEP 4:

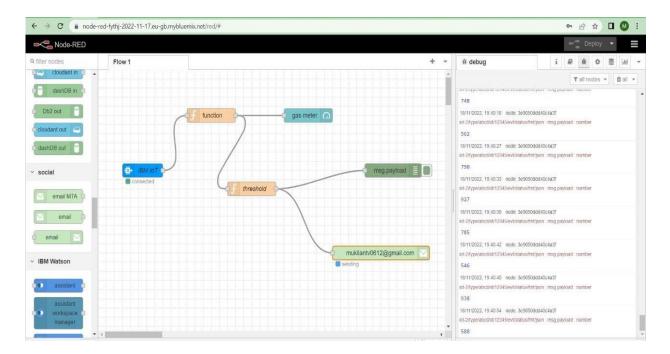
The board connect with the cloud and node-red platform and send information about the gas Leakage.

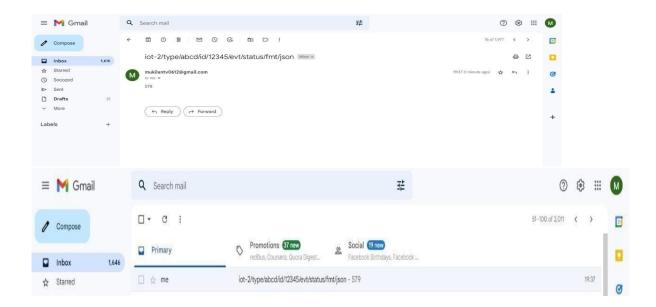


Step 5:

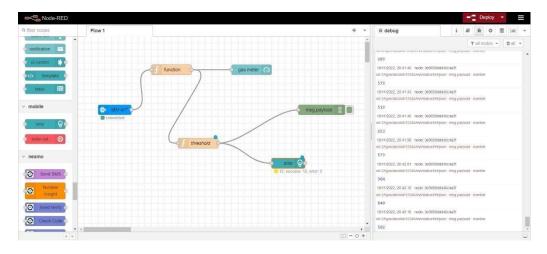
To send Alert Notification to the user

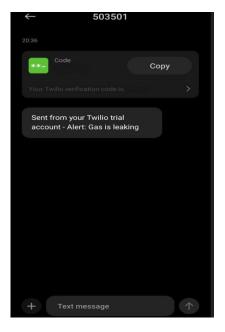
I. Notification through E-Mail:



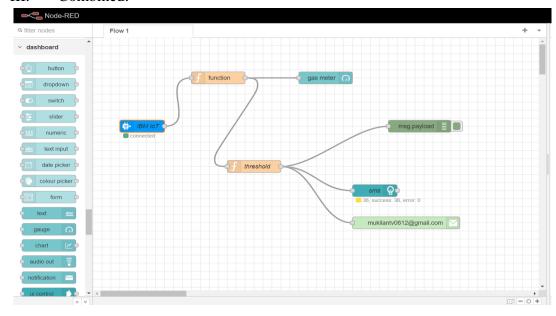


II. Notification through SMS:





III. Combined:



CONCLUSION:

The objectives are achieved and the data flow is constructed as per the project flow mentioned in the smartinternz guided project.