

Final Deliverables

APP DESIGNING

Team ID	PNT2022TMID21380
Project Name	Project – Gas Leakage Monitoring and Alerting System for Industries
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Screenshots:

A device can be created in IBM IoT Platform and input has given.

The screenshot displays the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main panel is titled 'IBM Watson IoT Platform' and includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below these, there are buttons for 'All Devices' and 'Diagnose'. A text block states: 'This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.' Below this is a search bar labeled 'Search by Device ID'. A table lists devices with columns for 'Device ID', 'Status', and 'Device Type'. The table contains two rows: one with Device ID '12345', Status 'Disconnected', and Device Type 'gas_leakage'; the other with Device ID '15', Status 'Disconnected', and Device Type 'ngmp'. At the bottom of the table, it says 'Items per page 50 | 1-2 of 2 items'. On the right, a modal window is open for configuring a device type 'gas_leakage'. It shows 'Events 1' and a 'New event type +' button. The 'Event type name' is 'gas_detection' with a 'Send' button. The 'Schedule' is set to 'Every Minute'. The 'Payload' section shows a JSON structure with random values for 'randomNumber', 'co_level', 'methane_level', and 'temp'.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
12345	Disconnected	gas_leakage
15	Disconnected	ngmp

Items per page 50 | 1-2 of 2 items

Device Type: gas_leakage

Events 1 New event type +

Event type name gas_detection Send

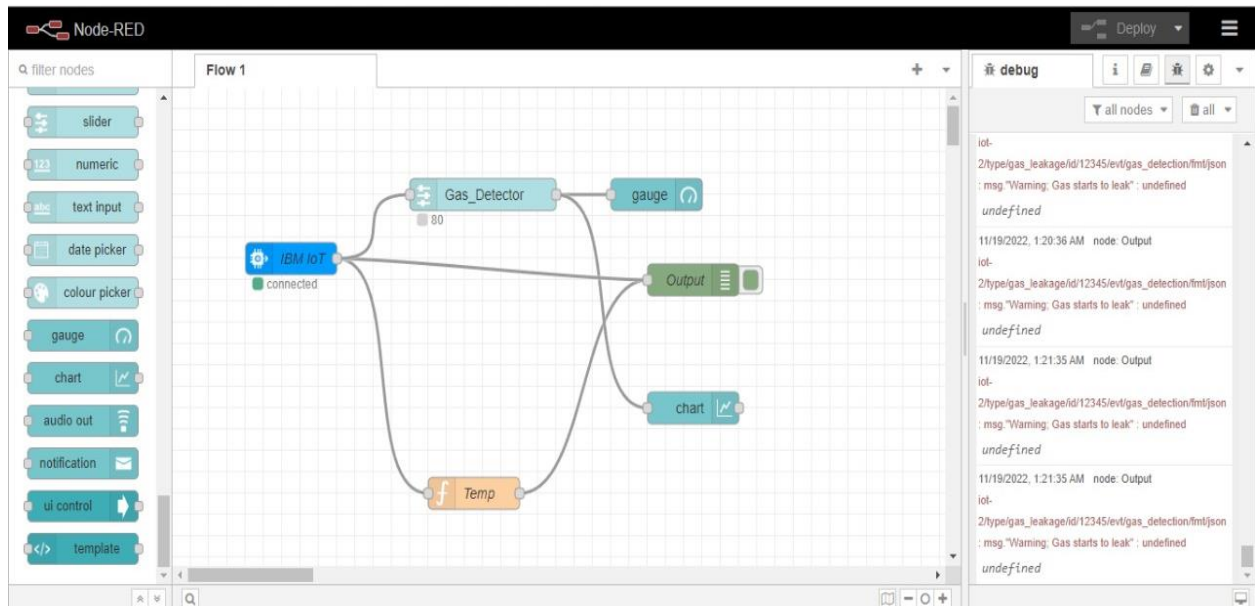
Schedule 1 Every Minute

Payload Specify the event payload in the editor window or by uploading a CSV file.

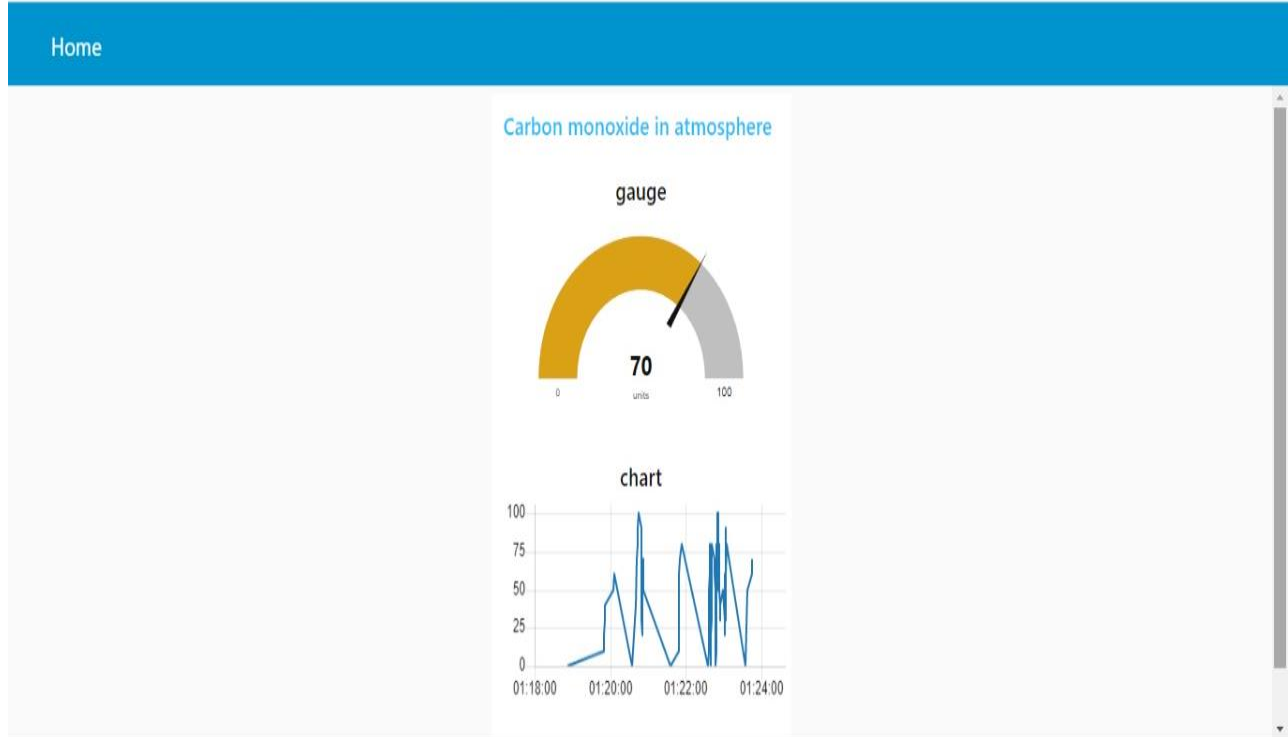
```
0 {
1   "randomNumber": random(0, 100),
2   "co_level": random(90, 110),
3   "methane_level": random(60, 100),
4   "temp": random(10, 50)
5 }
```

Node – red :

Circuit is designed in Node – red. If the gases are leakage, then it will send the alert message.



The gas leakage level can be shown in the graph.



Gas Leakage detection using Mobile App:

