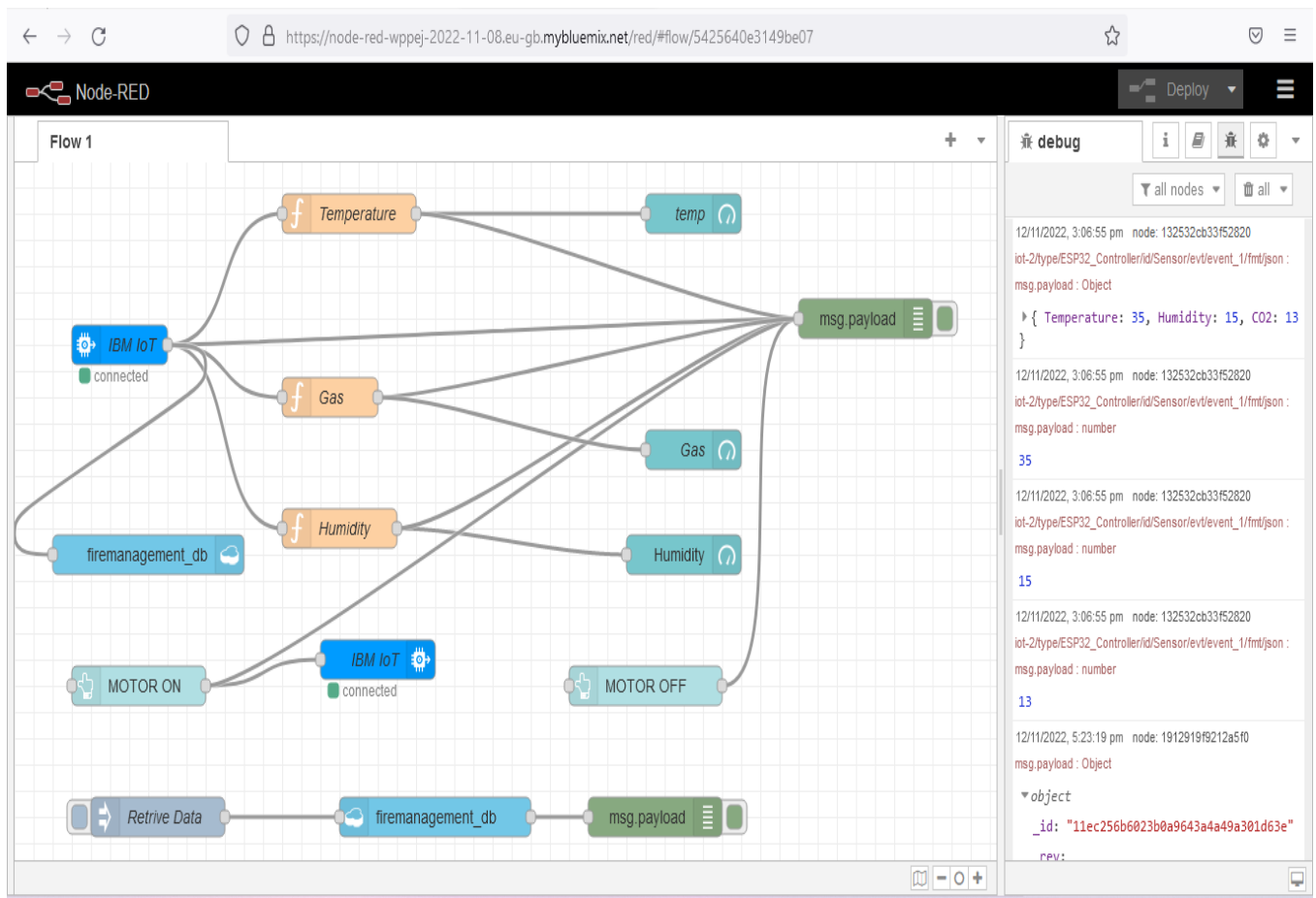


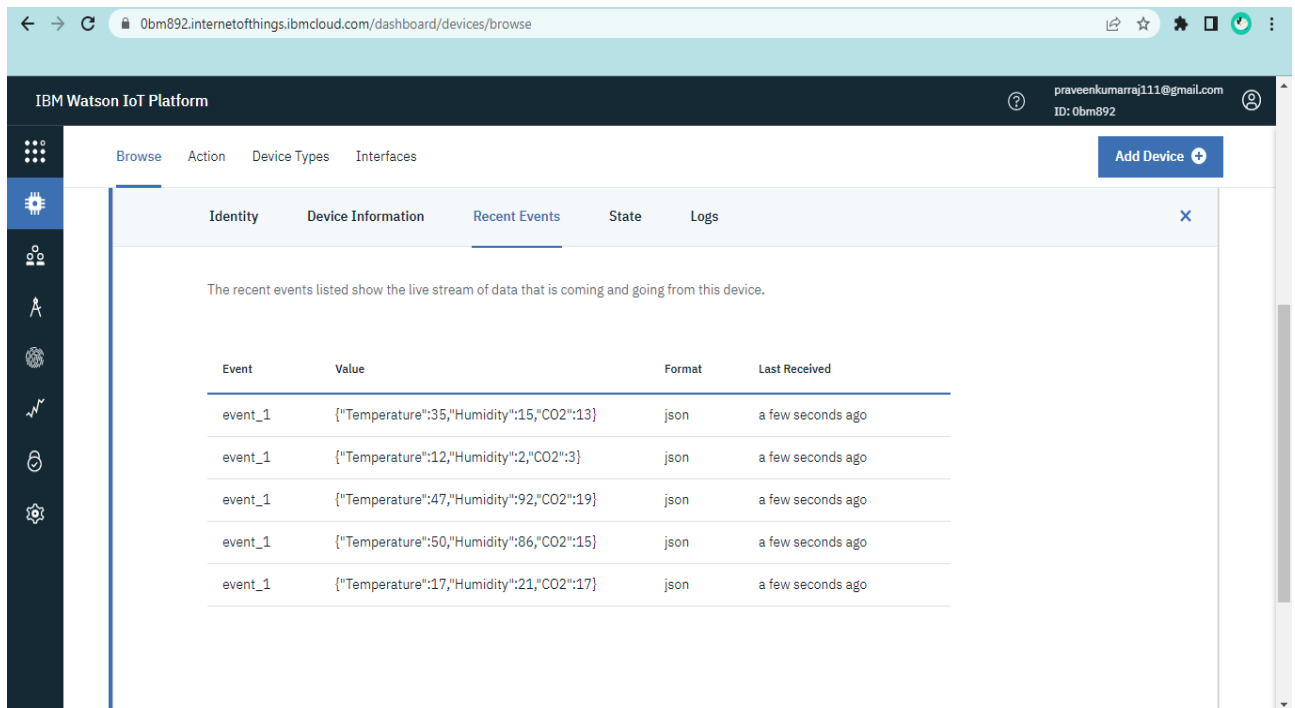
# Develop The Web Application Using Node-RED

Date	26-10-2022
Team ID	PNT2022TMID42644
Project Name	Industry – specific intelligent fire management system

## Configure the Node-RED flow to receive data from the IBM IoT platform :



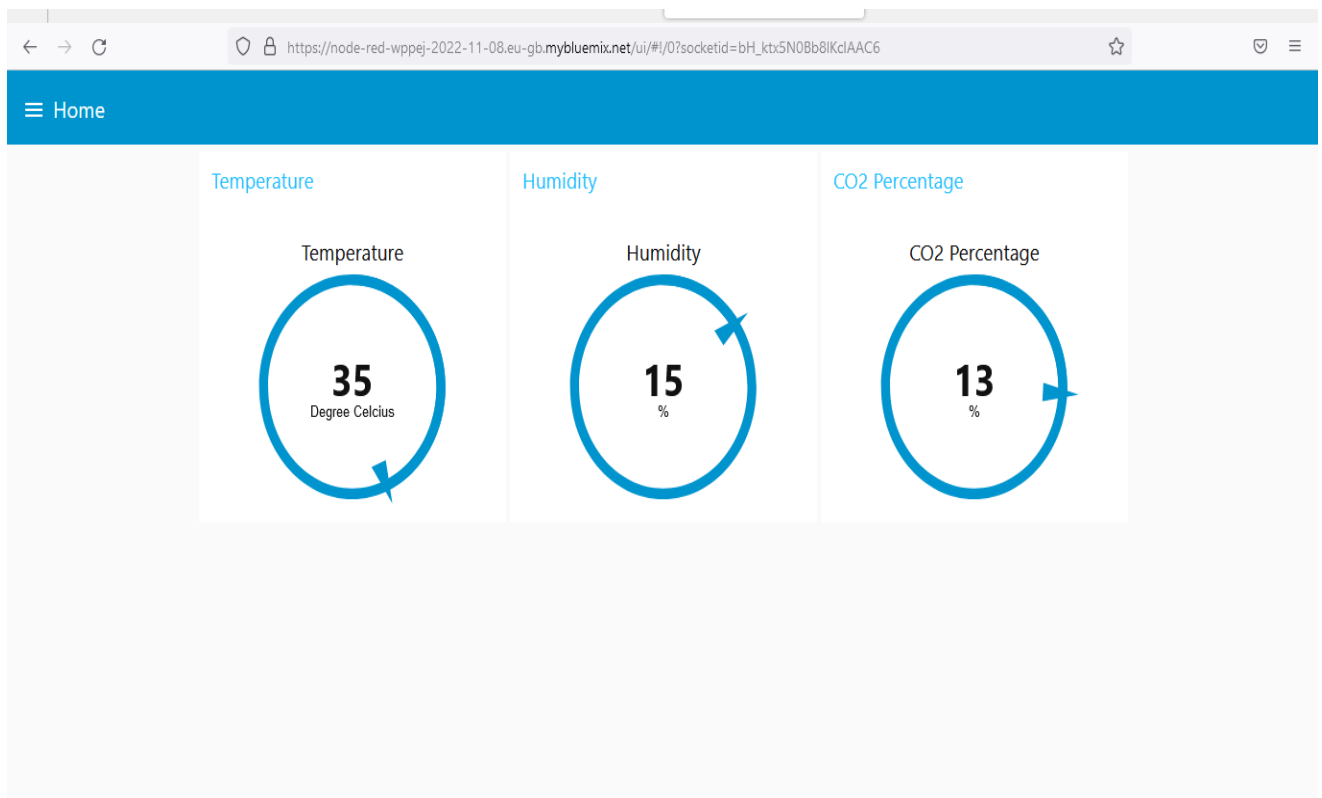
## IoT Watson Cloud Output :



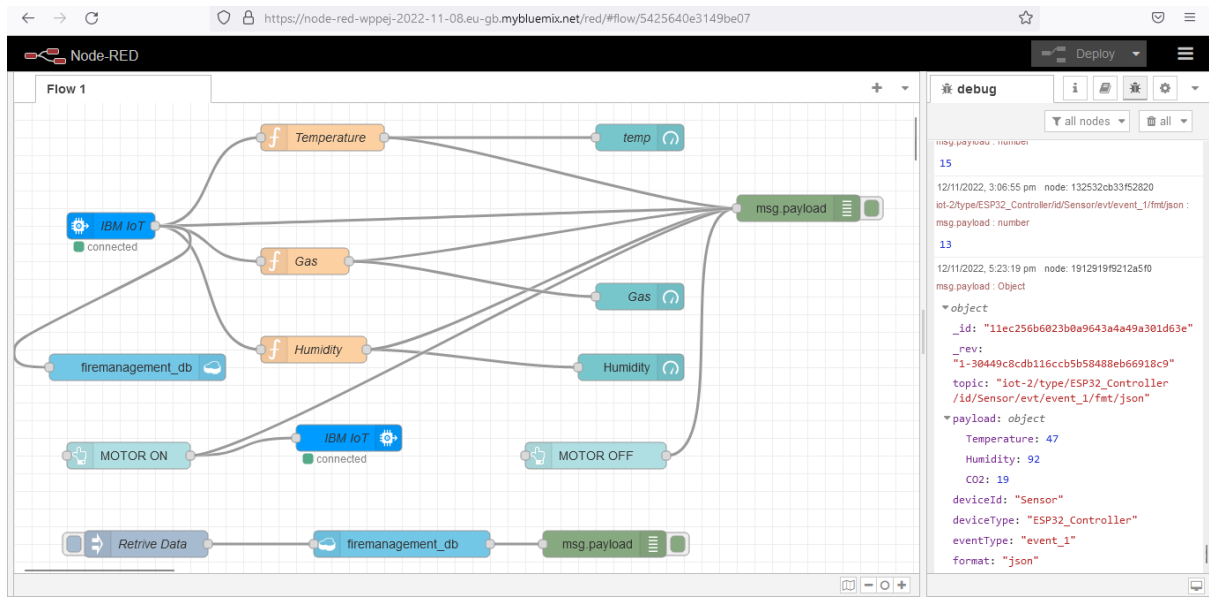
The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Recent Events' tab is selected, displaying a table of live data events. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events are listed as 'event\_1' with JSON values for Temperature, Humidity, and CO2, all received 'a few seconds ago'.

Event	Value	Format	Last Received
event_1	{"Temperature":35,"Humidity":15,"CO2":13}	json	a few seconds ago
event_1	{"Temperature":12,"Humidity":2,"CO2":3}	json	a few seconds ago
event_1	{"Temperature":47,"Humidity":92,"CO2":19}	json	a few seconds ago
event_1	{"Temperature":50,"Humidity":86,"CO2":15}	json	a few seconds ago
event_1	{"Temperature":17,"Humidity":21,"CO2":17}	json	a few seconds ago

## WEB APPLICATION OUTPUT:



## Use Cloudant DB nodes to store the received sensor data in the cloudant DB :



## Storing Data in Cloudant DB :

The screenshot shows the Cloudant dashboard for the 'firemanagement\_db' database. The left sidebar contains navigation links for 'All Documents', 'Query', 'Permissions', 'Changes', 'Design Documents', and 'Log Out'. The main area displays a table of documents. The table has columns for 'id', 'key', and 'value'. The 'value' column contains JSON objects with 'rev' and 'payload' fields. The 'payload' field contains sensor data (Temperature, Humidity, CO2) and metadata (deviceId, deviceType, eventType, format). The table shows 7 documents, with the first one expanded to show its details.

id	key	value
<input type="checkbox"/> 11ec256b6023b0a9643a4a49a301d...	11ec256b6023b0a9643a4a49a301d...	{ "rev": "1-30449c8cdb116ccb5b584...", "payload": { "Temperature": 47, "Humidity": 92, "CO2": 19, "deviceId": "Sensor", "deviceType": "ESP32_Controller", "eventType": "event_1", "format": "json" } }
<input type="checkbox"/> 972f448440124a2f0dccb753714a4ebc	972f448440124a2f0dccb753714a4ebc	{ "rev": "1-84aa8363947b177f15665...", "payload": { "Temperature": 47, "Humidity": 92, "CO2": 19, "deviceId": "Sensor", "deviceType": "ESP32_Controller", "eventType": "event_1", "format": "json" } }
<input type="checkbox"/> b16b206c6e0854f0ab89f41dcca67c83	b16b206c6e0854f0ab89f41dcca67c83	{ "rev": "1-c9f510ea6eda8dbdb51714...", "payload": { "Temperature": 47, "Humidity": 92, "CO2": 19, "deviceId": "Sensor", "deviceType": "ESP32_Controller", "eventType": "event_1", "format": "json" } }
<input type="checkbox"/> b65c91474a208eefe30f31833008fb67	b65c91474a208eefe30f31833008fb67	{ "rev": "1-78326c42f3ffeb1d9369f33...", "payload": { "Temperature": 47, "Humidity": 92, "CO2": 19, "deviceId": "Sensor", "deviceType": "ESP32_Controller", "eventType": "event_1", "format": "json" } }
<input type="checkbox"/> b65c91474a208eefe30f3183300a67f1	b65c91474a208eefe30f3183300a67f1	{ "rev": "1-b97fd22686f4e3ab8e578a...", "payload": { "Temperature": 47, "Humidity": 92, "CO2": 19, "deviceId": "Sensor", "deviceType": "ESP32_Controller", "eventType": "event_1", "format": "json" } }
<input type="checkbox"/> bdb335fc51b38fcc6efa91e14a8bb53f	bdb335fc51b38fcc6efa91e14a8bb53f	{ "rev": "1-3db9f40381294604b44ce...", "payload": { "Temperature": 47, "Humidity": 92, "CO2": 19, "deviceId": "Sensor", "deviceType": "ESP32_Controller", "eventType": "event_1", "format": "json" } }
<input type="checkbox"/> d7207414bfc4176c3fbf47c633754a2f	d7207414bfc4176c3fbf47c633754a2f	{ "rev": "1-a4cb7997dcc96ac47470c9...", "payload": { "Temperature": 47, "Humidity": 92, "CO2": 19, "deviceId": "Sensor", "deviceType": "ESP32_Controller", "eventType": "event_1", "format": "json" } }

Showing document 1 - 7. Documents per page: 20