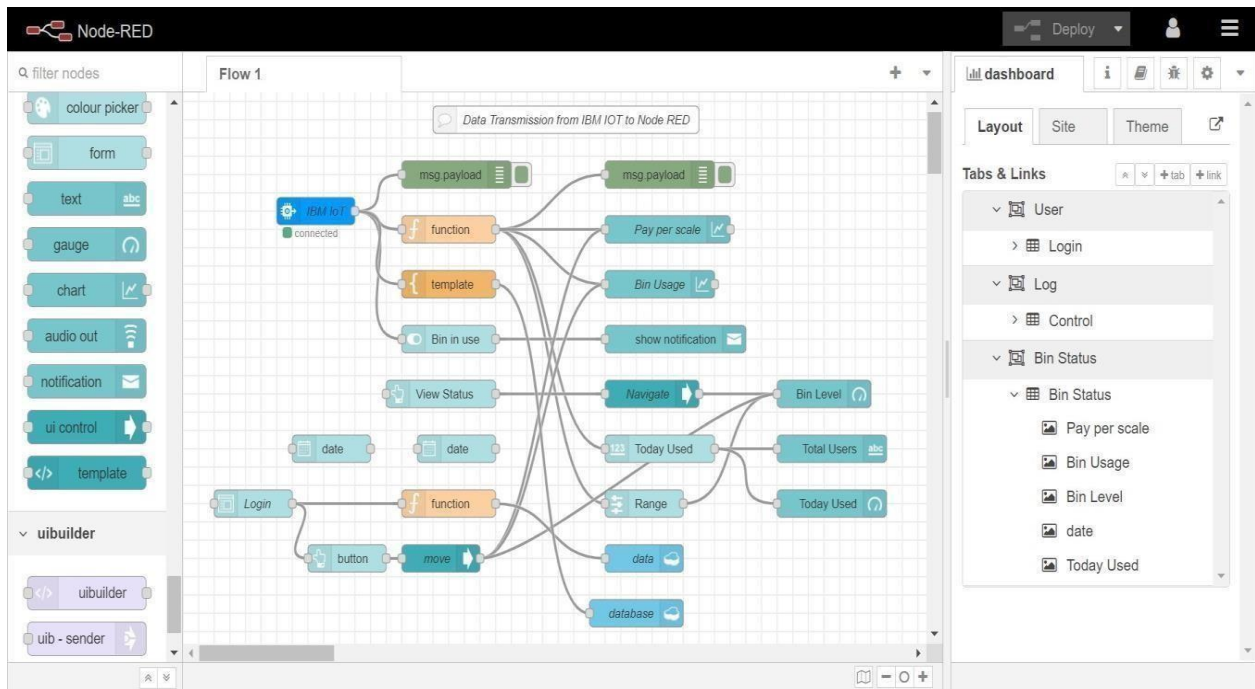


Delivery of Sprint – 4

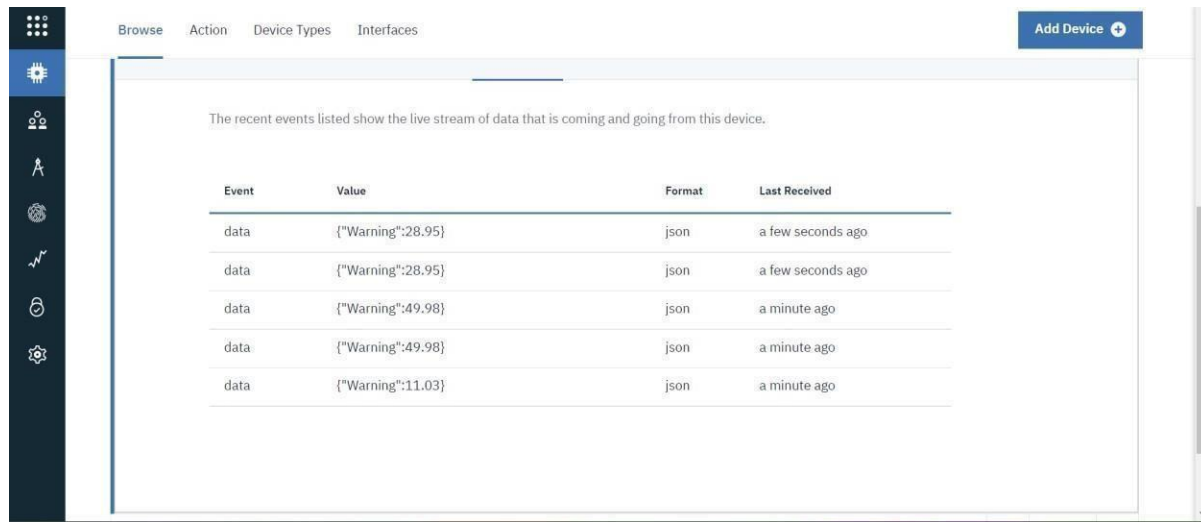
| | |
|--------------|--|
| Date | 10 november 2022 |
| Team ID | PNT2022TMID30894 |
| Project Name | Smart Waste Management for Metropolitan Cities |

1. Node-RED Connection setup for data transmission from IBM Watson IOT platform to Node-RED dashboard.

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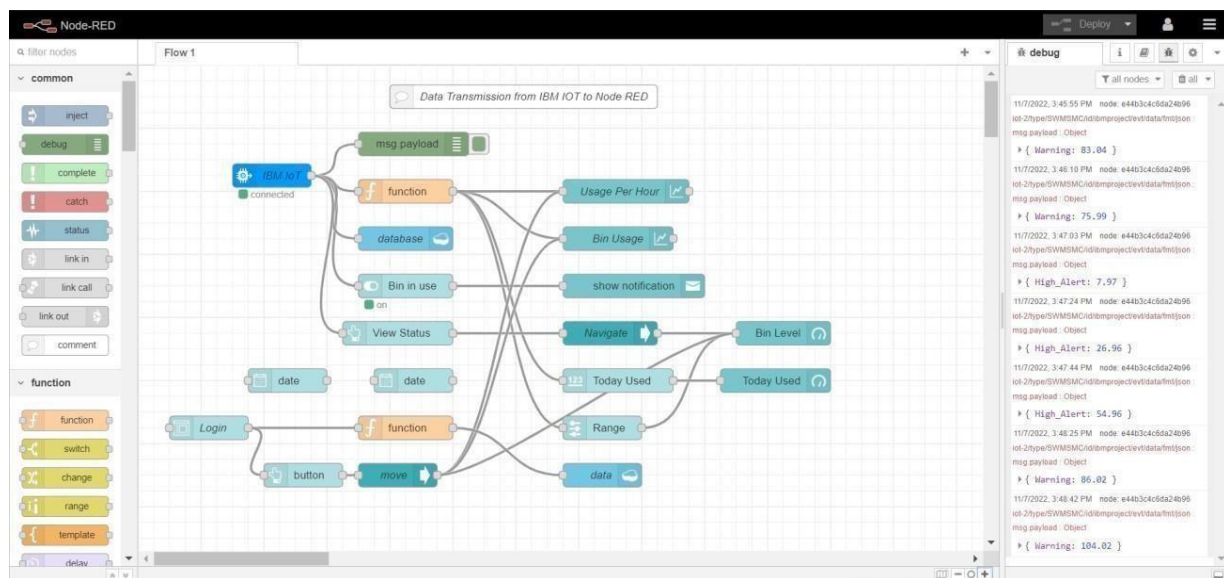
3. Data transfer to Watson IOT platform.



The screenshot shows the IBM Watson IoT Platform interface. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A blue 'Add Device' button is in the top right. Below the tabs, a message states: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this message is a table with the following data:

| Event | Value | Format | Last Received |
|-------|-------------------|--------|-------------------|
| data | {"Warning":28.95} | json | a few seconds ago |
| data | {"Warning":28.95} | json | a few seconds ago |
| data | {"Warning":49.98} | json | a minute ago |
| data | {"Warning":49.98} | json | a minute ago |
| data | {"Warning":11.03} | json | a minute ago |

4. Data transfer from IBM Watson IOT platform and wokwi to Node red.



5 . Storing database in IBM cloudant DB.

The screenshot shows the IBM Cloudant Databases interface. At the top, there's a header with the title "Databases", a "Database name" dropdown, a "Create Database" button, and icons for JSON, a book, and a bell. Below the header, there's a section titled "Your Databases" containing a table with the following data:

| Name | Size | # of Docs | Partitioned | Actions |
|-----------------------|---------|-----------|-------------|--------------------------------|
| login_credentials | 13.7 KB | 111 | No | [Icons for edit, lock, delete] |
| noderedwjlidy20221105 | 37.4 KB | 4 | No | [Icons for edit, lock, delete] |
| sample | 59.4 KB | 351 | No | [Icons for edit, lock, delete] |
| sensor_data | 15.7 KB | 90 | No | [Icons for edit, lock, delete] |

At the bottom of the interface, it says "Showing 1–4 of 4 databases." and "Databases per page: 20". There is also a "Log Out" button in the bottom left corner.

The screenshot shows the IBM Cloudant interface for the "sensor_data" database. The left sidebar has a "sensor_data" header and a menu with "All Documents", "Query", "Permissions", "Changes", and "Design Documents". The main area shows a list of documents in a table format. The table has columns for "id", "key", and "value". The "value" column contains JSON documents. The first few documents are:

| id | key | value |
|-------------------------------|-------------------------------|--------------------------------------|
| 0198213c192cb2c244cc2433f1... | 0198213c192cb2c244cc2433f1... | { "rev": "1-cde2dd17c519394df..." } |
| 0198213c192cb2c244cc2433f1... | 0198213c192cb2c244cc2433f1... | { "rev": "1-d26c5b40891e13c6c..." } |
| 0198213c192cb2c244cc2433f1... | 0198213c192cb2c244cc2433f1... | { "rev": "1-cde2dd17c519394df..." } |
| 0198213c192cb2c244cc2433f1... | 0198213c192cb2c244cc2433f1... | { "rev": "1-f96eb0460bc16cfab0..." } |
| 1a921f21cbe229b86f599acb45... | 1a921f21cbe229b86f599acb45... | { "rev": "1-7226f08794cd47b7c..." } |
| 1a921f21cbe229b86f599acb45... | 1a921f21cbe229b86f599acb45... | { "rev": "1-1bbdd9a985bd56cf9..." } |
| 20a854e5445fa818e6c1de049... | 20a854e5445fa818e6c1de049... | { "rev": "1-7226f08794cd47b7c..." } |
| 20a854e5445fa818e6c1de049... | 20a854e5445fa818e6c1de049... | { "rev": "1-3ad288ecad57f039e..." } |
| 20a854e5445fa818e6c1de049... | 20a854e5445fa818e6c1de049... | { "rev": "1-1bbdd9a985bd56cf9..." } |
| 298ed6fhd9b3b815f5ac7c061e... | 298ed6fhd9b3b815f5ac7c061e... | { "rev": "1-4e7240f6e5307a1h9..." } |

At the bottom, it says "Showing document 1 - 20." and "Documents per page: 20". There is also a "Log Out" button in the bottom left corner.

6. Data is stored in JSON format

↔

sensor_data > 0198213c192cb2c244cc2433f1802b91

{ } JSON

✓ Save Changes

Cancel

Upload Attachment

Clone Document

Delete

1-

{

2-

"_id": "0198213c192cb2c244cc2433f1802b91",

3-

"_rev": "1-cde2dd17c519394dfcb774738c495f8b",

4-

"topic": "iot-2/type/SWMSMC/id/ibmproject/evt/data/fmt/json",

5-

"payload": {

6-

| "Warning!": "244.971left"

7-

},

8-

"deviceId": "ibmproject",

9-

"deviceType": "SWMSMC",

10-

"eventType": "data",

11-

"format": "json"

12-

}

Log Out

7. Web UI

≡ Log

Log

Bin Status

Control

Bin in use

Range

Today Used

0

date

06/11/2022

VIEW STATUS

Log

Control

Bin in use

Range

Today Used

date

VIEW STATUS

