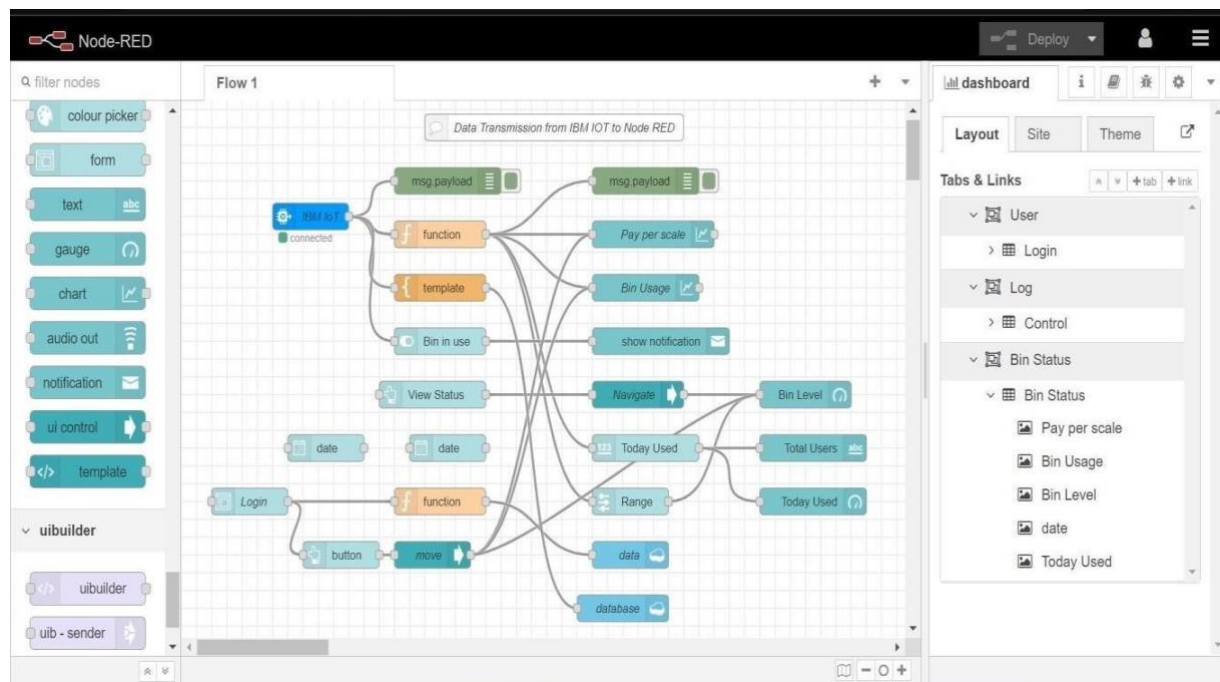


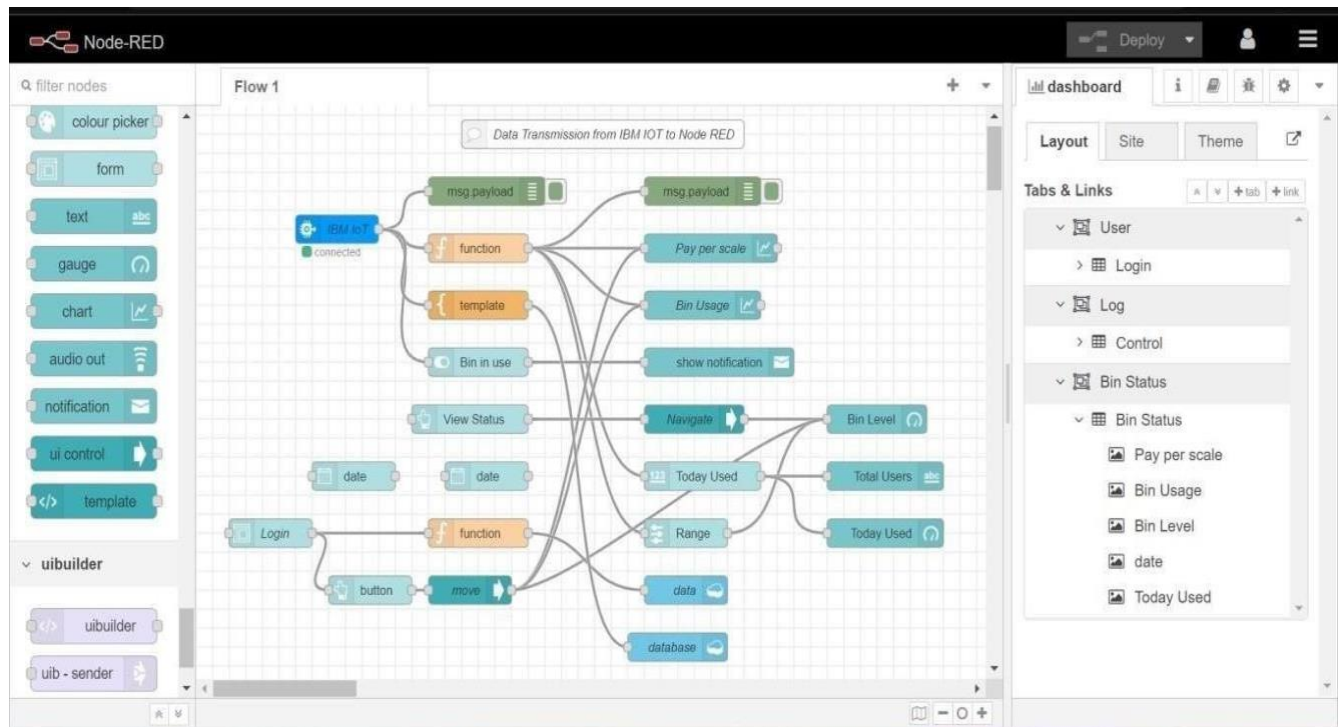
Delivery of Sprint – 4

Web UI Design and Deploy

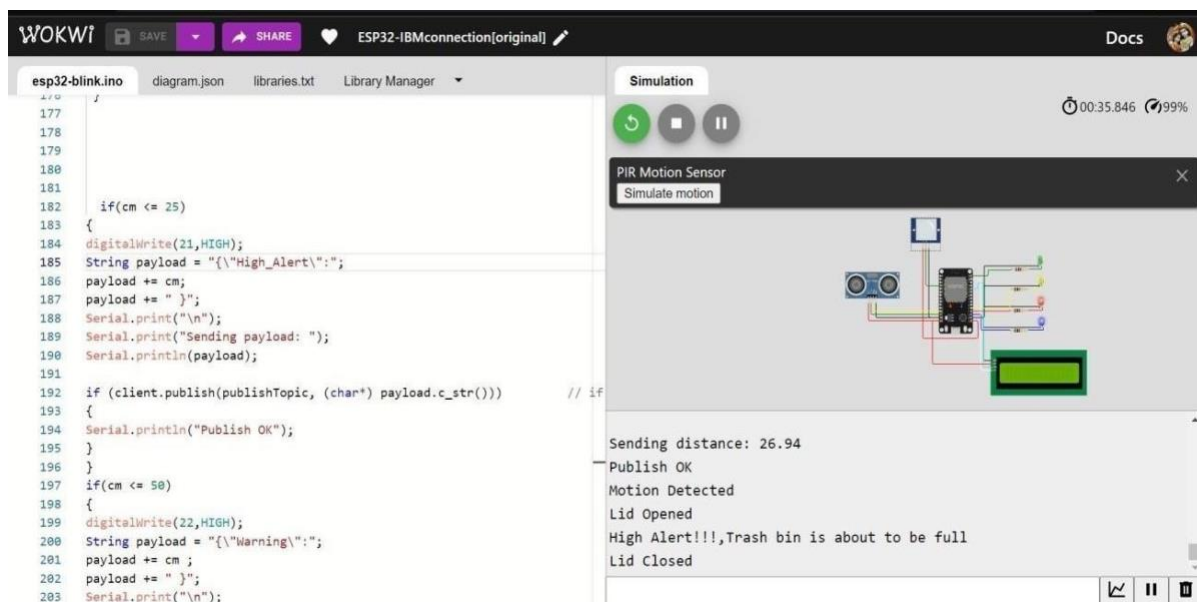
| | |
|--------------|--|
| Date | 9 November 2022 |
| Team ID | PNT2022TMID46042 |
| Project Name | Smart Waste Management for Metropolitan Cities-IOT |

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





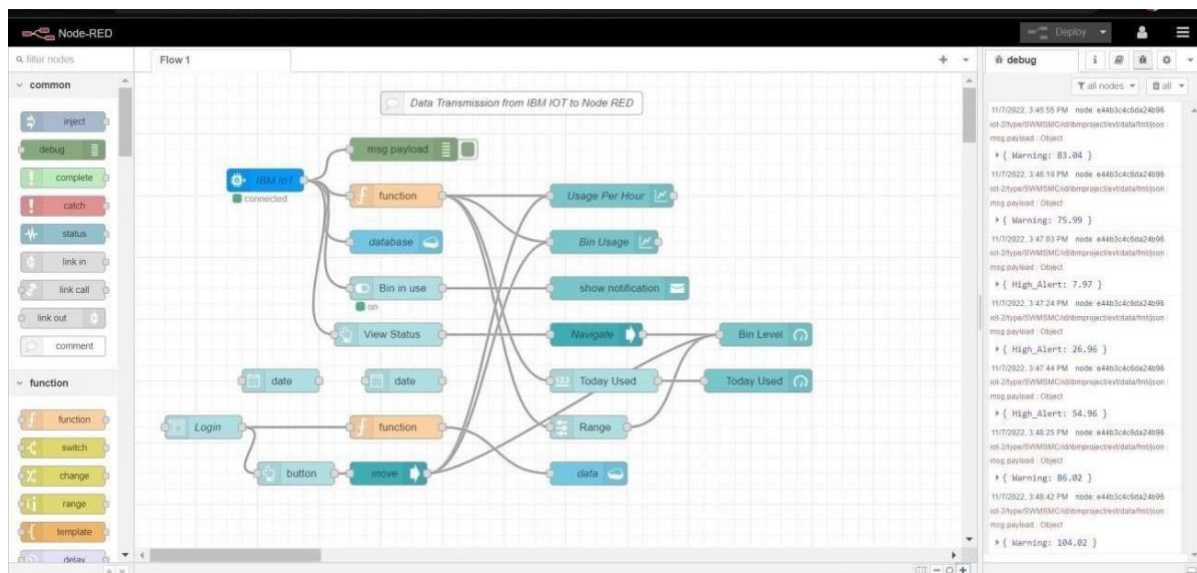
2. Simulate Wokwi connection to transmit data from wokwi account to IBM WatsonIOT platform and then to Node Red dashboard.



3. Data transfer to Watson IOT platform.

| Browse Action Device Types Interfaces | | | | Add Device + | |
|--|-------------------|--------|-------------------|--------------|--|
| The recent events listed show the live stream of data that is coming and going from this device. | | | | | |
| 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.

Database name

Create Database

{ } JSON

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Log Out

Databases

Your Databases

| Name | Size | # of Docs | Partitioned | Actions |
|----------------------|---------|-----------|-------------|---------|
| login_credentials | 13.7 KB | 111 | No | 🔍 🗄️ 🗑️ |
| noderedwjldy20221105 | 37.4 KB | 4 | No | 🔍 🗄️ 🗑️ |
| sample | 59.4 KB | 351 | No | 🔍 🗄️ 🗑️ |
| sensor_data | 15.7 KB | 90 | No | 🔍 🗄️ 🗑️ |

Showing 1–4 of 4 databases. Databases per page 20

Document ID

Options

{ } JSON

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Log Out

sensor_data

All Documents

Query

Permissions

Changes

Design Documents

Table

Metadata

{ } JSON

Create Document

| | id | key | value |
|--------------------------|-------------------------------|-------------------------------|------------------------------------|
| <input type="checkbox"/> | 0198213c192cb2c244cc2433f1... | 0198213c192cb2c244cc2433f1... | { "rev": "1-cde2dd17c519394df..." |
| <input type="checkbox"/> | 0198213c192cb2c244cc2433f1... | 0198213c192cb2c244cc2433f1... | { "rev": "1-d26c5b40891e13c6c..." |
| <input type="checkbox"/> | 0198213c192cb2c244cc2433f1... | 0198213c192cb2c244cc2433f1... | { "rev": "1-cde2dd17c519394df..." |
| <input type="checkbox"/> | 0198213c192cb2c244cc2433f1... | 0198213c192cb2c244cc2433f1... | { "rev": "1-f96eb0460bc16cfab0..." |
| <input type="checkbox"/> | 1a921f21cbe229b86f599acb45... | 1a921f21cbe229b86f599acb45... | { "rev": "1-7226f08794cd47b7c..." |
| <input type="checkbox"/> | 1a921f21cbe229b86f599acb45... | 1a921f21cbe229b86f599acb45... | { "rev": "1-1bbdd9a985bd56cf9..." |
| <input type="checkbox"/> | 20a854e5445fa818e6c1de049... | 20a854e5445fa818e6c1de049... | { "rev": "1-7226f08794cd47b7c..." |
| <input type="checkbox"/> | 20a854e5445fa818e6c1de049... | 20a854e5445fa818e6c1de049... | { "rev": "1-3ad288ecad57f039e..." |
| <input type="checkbox"/> | 20a854e5445fa818e6c1de049... | 20a854e5445fa818e6c1de049... | { "rev": "1-1bbdd9a985bd56cf9..." |
| <input type="checkbox"/> | 298ed6fhd9b3b815f5ac7c061e... | 298ed6fhd9b3b815f5ac7c061e... | { "rev": "1-4e724df6e5307a1b9..." |

Showing document 1 - 20. Documents per page: 20

6. Data is stored in JSON format



sensor_data > 0198213c192cb2c244cc2433f1802b91

{ } JSON



Save Changes

Cancel

Upload Attachment

Clone Document

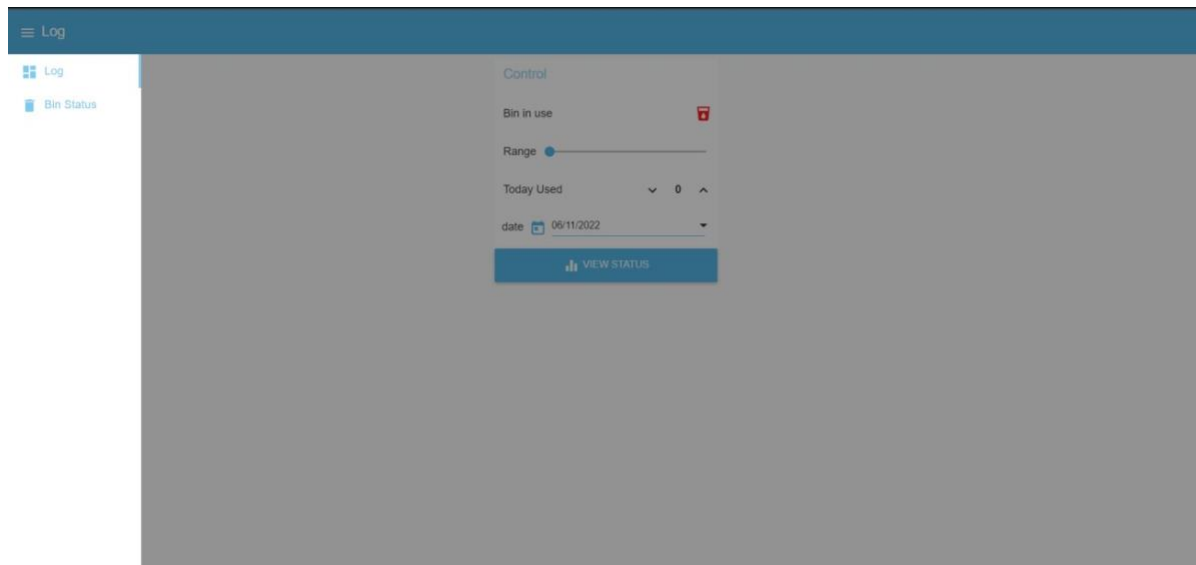
Delete



Log Out

```
1 {
2   "_id": "0198213c192cb2c244cc2433f1802b91",
3   "_rev": "1-cde2dd17c519394dfef774730c495f8b",
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 }
```

7. Web UI



Control

Bin in use



Range



Today Used

0

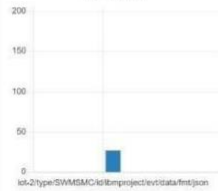
date

06/11/2022

VIEW STATUS

Bin Status

Bin Level



date 06/11/2022

Today Used



Bin Level



Today Used

