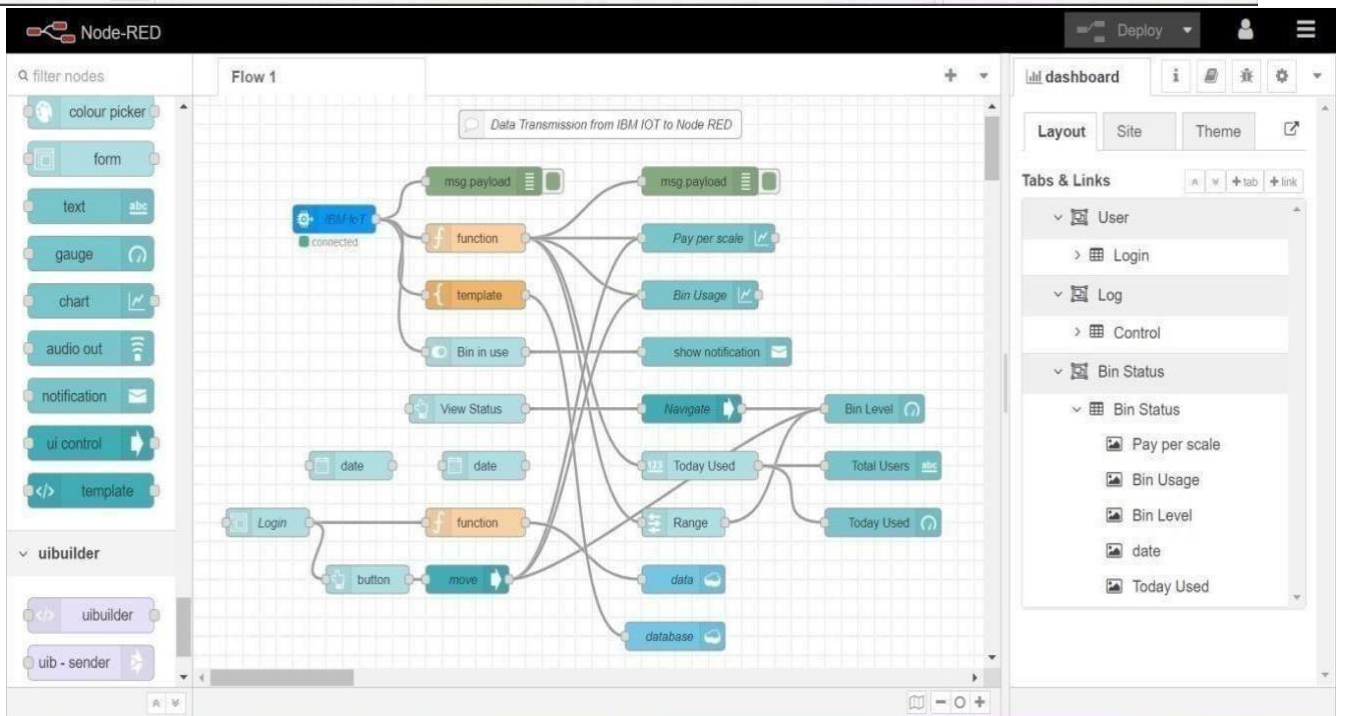
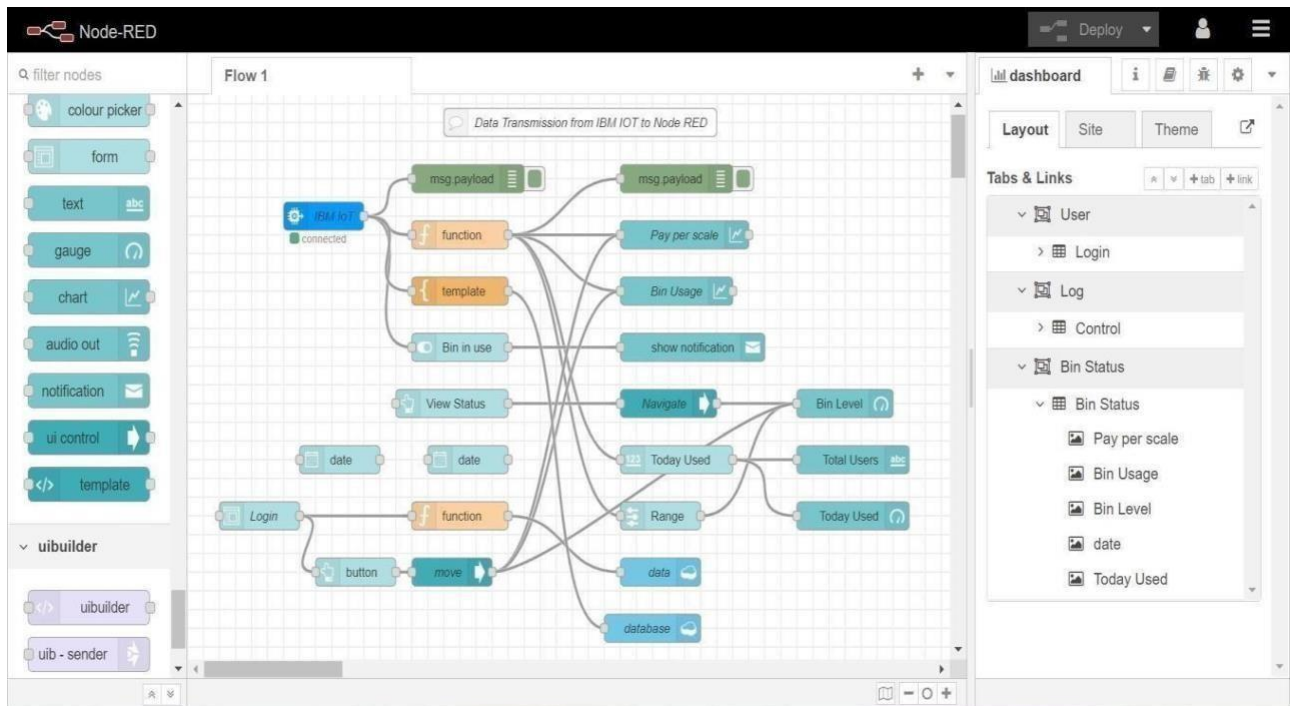


Delivery of Sprint – 4

Date	November 16 2022
Team ID	PNT2022TMID34757
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.



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

The screenshot displays the Wokwi IDE interface. On the left, the code editor shows an ESP32 program named `esp32-blink.ino`. The code includes logic for sending distance data and triggering alerts based on distance thresholds. On the right, the simulation window shows a virtual circuit with an ESP32 board, a PIR motion sensor, and a green LCD display. A 'PIR Motion Sensor' dialog box is open, allowing the user to 'Simulate motion'. Below the circuit, a console window shows the following output:

```
Sending distance: 26.94
Publish OK
Motion Detected
Lid Opened
High Alert!!!,Trash bin is about to be full
Lid Closed
```

3. Data transfer to Watson IOT platform.

Databases

Create Database
{ } JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	
noderedwjdjy20221105	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 << 1 >>

< sensor_data

- All Documents +
- Query
- Permissions
- Changes
- Design Documents +

Document ID

Options { } JSON

Create Document

Metadata

	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..." }
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Showing document 1 - 20. Documents per page: 20 << 1 >>

6. Data is stored in JSON format

↔

sensor_data > 0198213c192cb2c244cc2433f1802b91

{}JSON

📖

🔔

✓ Save Changes Cancel

⬆️ Upload Attachment

🔄 Clone Document

🗑️ Delete

1 +

2 {

3 "_id": "0198213c192cb2c244cc2433f1802b91",

4 "_rev": "1-cde2dd17c519394dfeb774730c495f8b",

5 "topic": "iot-2/type/SW@SMC/id/ibmproject/evt/data/fmt/json",

6 "payload": {

7 "Warning!!": "244.971left"

8 },

9 "deviceId": "ibmproject",

10 "deviceType": "SW@SMC",

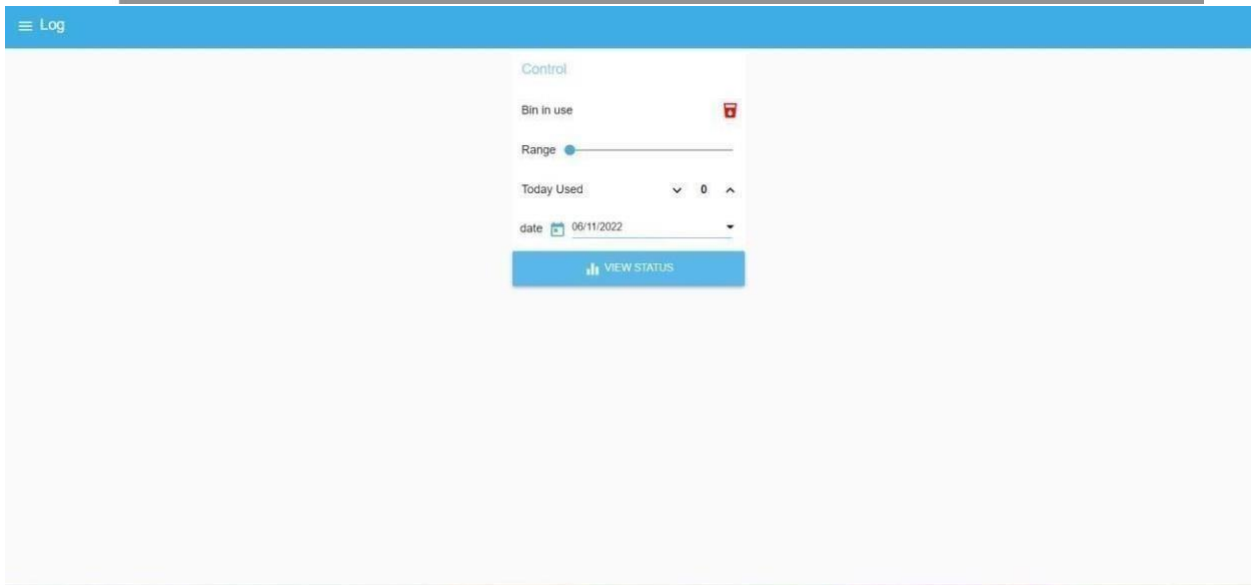
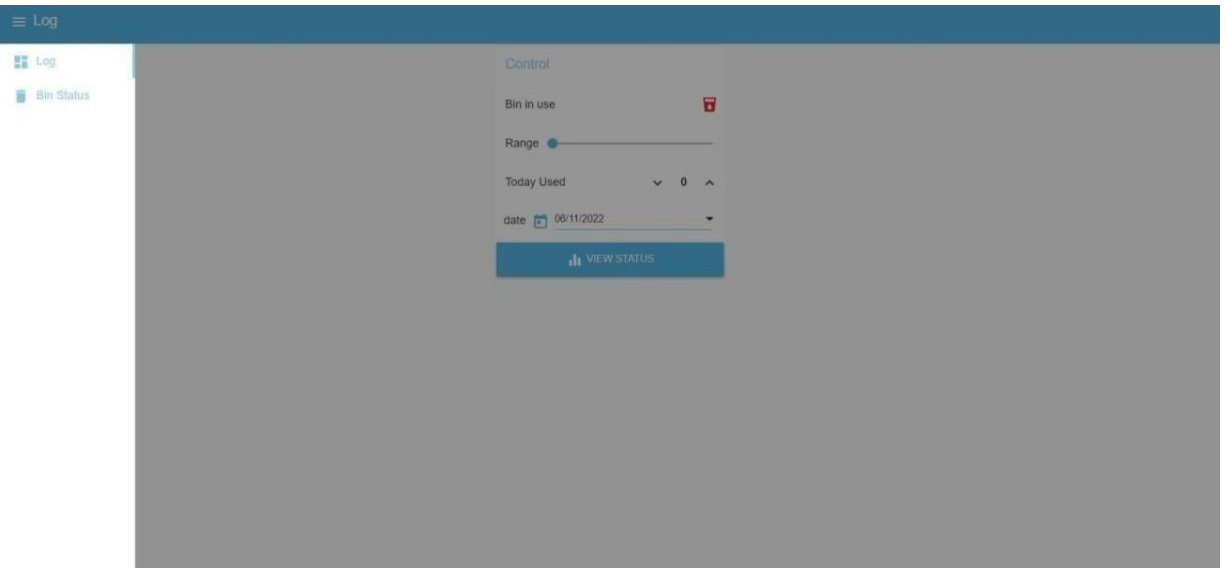
11 "eventType": "data",

12 "format": "json"

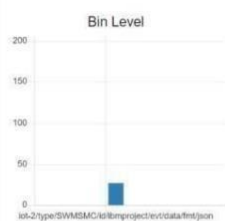
13 }

Log Out

7. Web UI



Bin Status



date 06/11/2022

