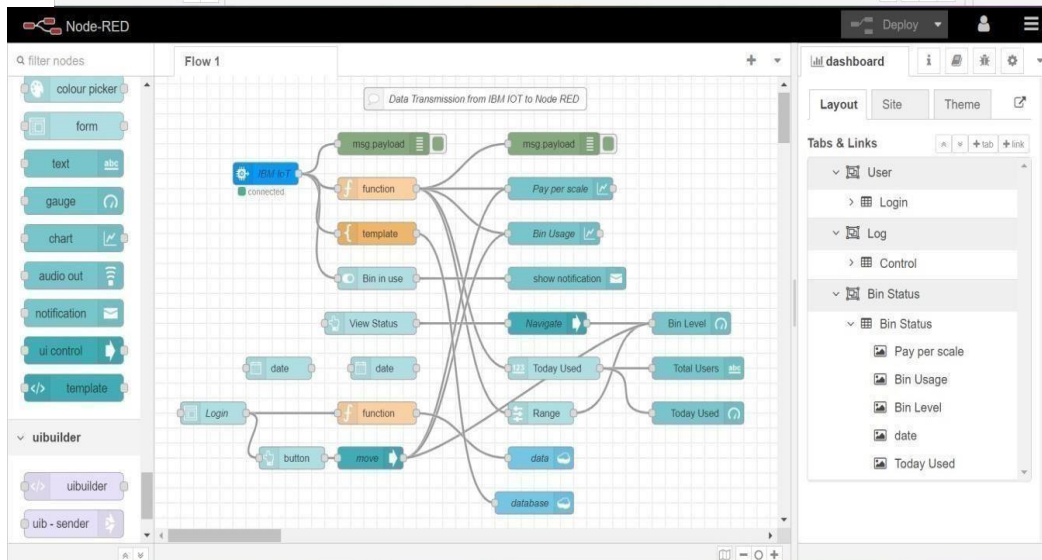
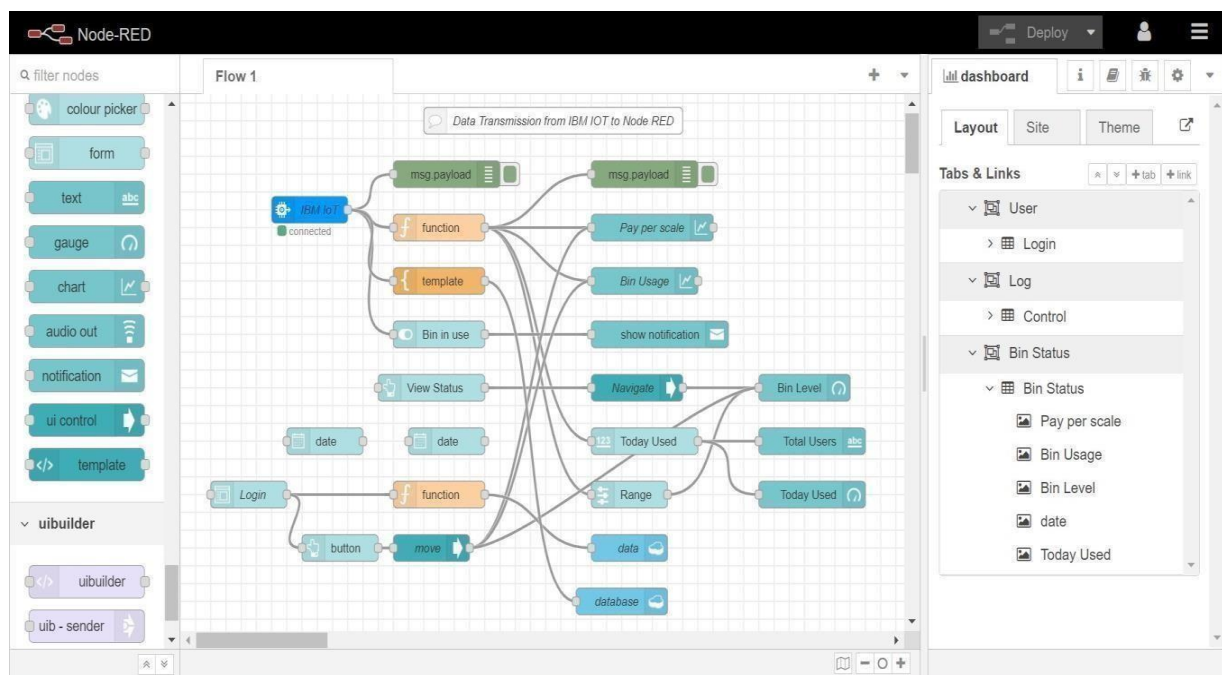


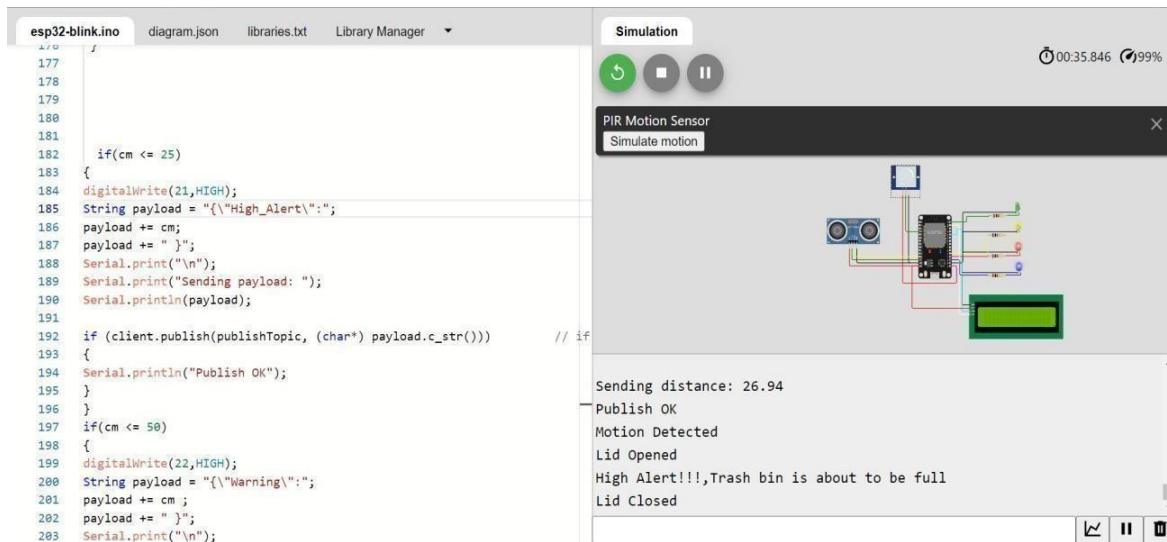
Delivery of Sprint – 4

Date	10 November 2022
Team ID	PNT2022TMID11587
Project Name	Smart Waste Management for Metropolitan Cities

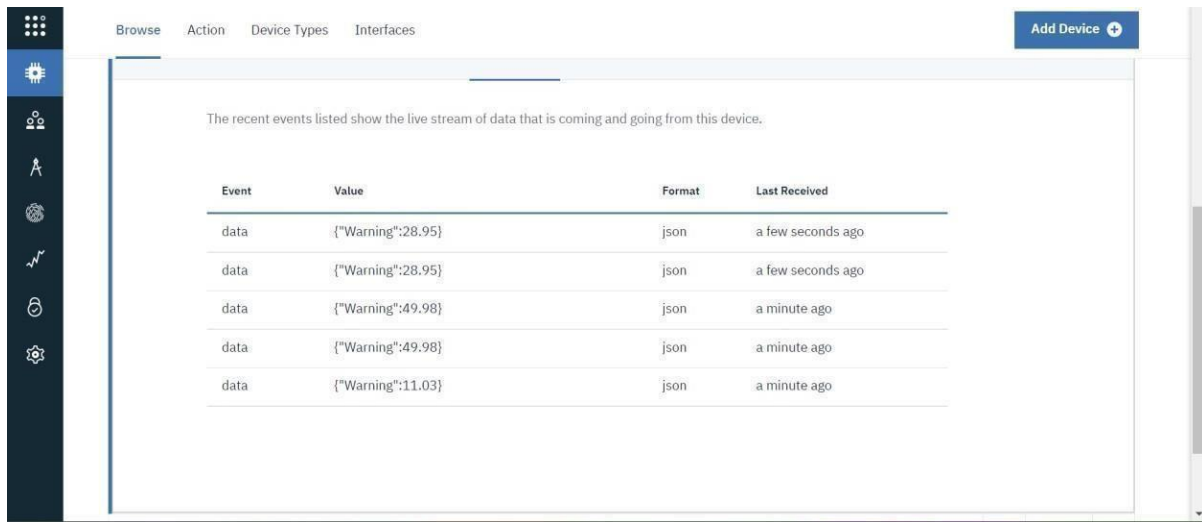
1. Node-RED Connection setup for data transmission from IBM Watson IOT platform to Node-RED dashboard.



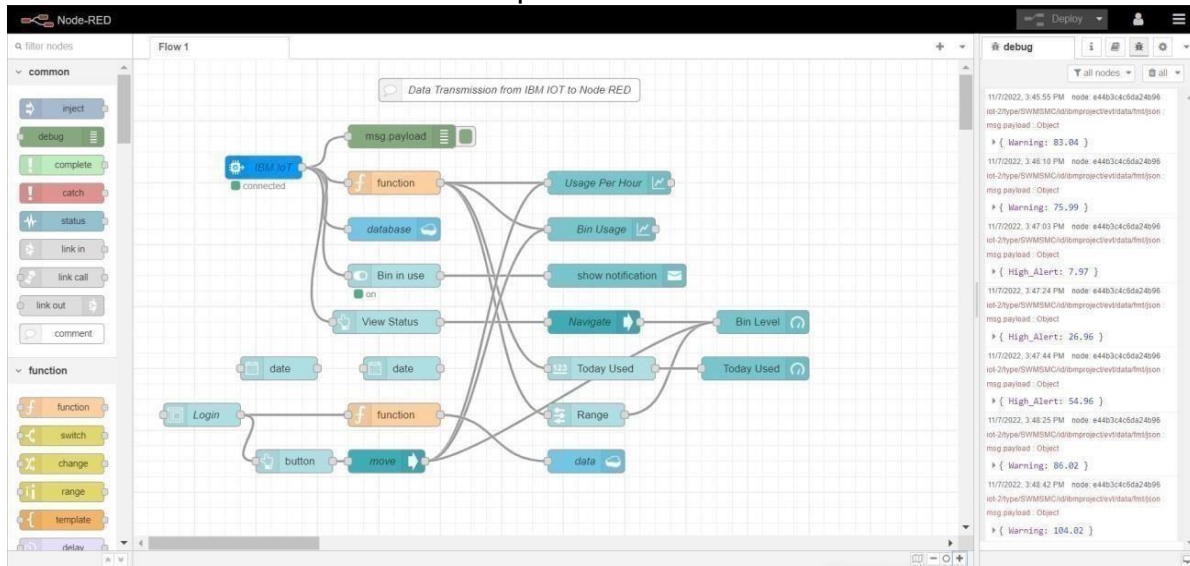
2. Simulate Wokwi connection to transmit data from wokwi account to IBM Watson IOT platform and then to Node Red dashboard.



3. Data transfer to Watson IOT platform.



4. Data transfer to Watson IOT platform.



5 . Storing database in IBM cloudant DB.

Database name
Create Database
{ } JSON

Databases

Your Databases

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	
noderedwjlidy20221105	37.4 KB	4	No	
sample	59.4 KB	351	No	
sensor_data	15.7 KB	90	No	

< sensor_data
Document ID
Options
{ } JSON

- 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-a7240f6e5307a1b9..." }

Showing document 1 - 20. Documents per page: 20

6. Data is stored in JSON forma

The screenshot shows a web application interface for editing a JSON document. At the top, the document is identified by the path `sensor_data > 0198213c192cb2c244cc2433f1802b91`. The document type is set to `{ } JSON`. The main editing area displays a JSON object with the following structure:

```
1 {
2   "_id": "0198213c192cb2c244cc2433f1802b91",
3   "_rev": "1-cde2dd17c519394dfeb774730c495f8b",
4   "topic": "iot-2/type/SWMSMC/id/ibmproject/evt/data/fmt/json",
5   "payload": {
6     "Warning!!": "244.97left"
7   },
8   "deviceId": "ibmproject",
9   "deviceType": "SWMSMC",
10  "eventType": "data",
11  "format": "json"
12 }
```

Below the JSON editor, there are several action buttons: `Save Changes` (with a checkmark icon), `Cancel`, `Upload Attachment` (with a plus icon), `Clone Document` (with a circular arrow icon), and `Delete` (with a trash icon). A vertical sidebar on the left contains various navigation icons, including a home icon, a database icon, a list icon, a user profile icon, a camera icon, a document icon, and a `Log Out` button at the bottom.

7. Web UI

The screenshot displays a web user interface (Web UI) for controlling a bin. The interface has a dark blue header with a `Log` button. On the left, there is a sidebar with a `Log` button and a `Bin Status` button. The main content area is titled `Control` and contains the following controls:

- `Bin in use`: A toggle switch with a red bin icon.
- `Range`: A horizontal slider control.
- `Today Used`: A numeric display showing `0`, with up and down arrow buttons.
- `date`: A date picker showing `06/11/2022`.
- `VIEW STATUS`: A blue button with a bar chart icon.

≡ Log

Control

Bin in use

Range

Today Used

date

VIEW STATUS



