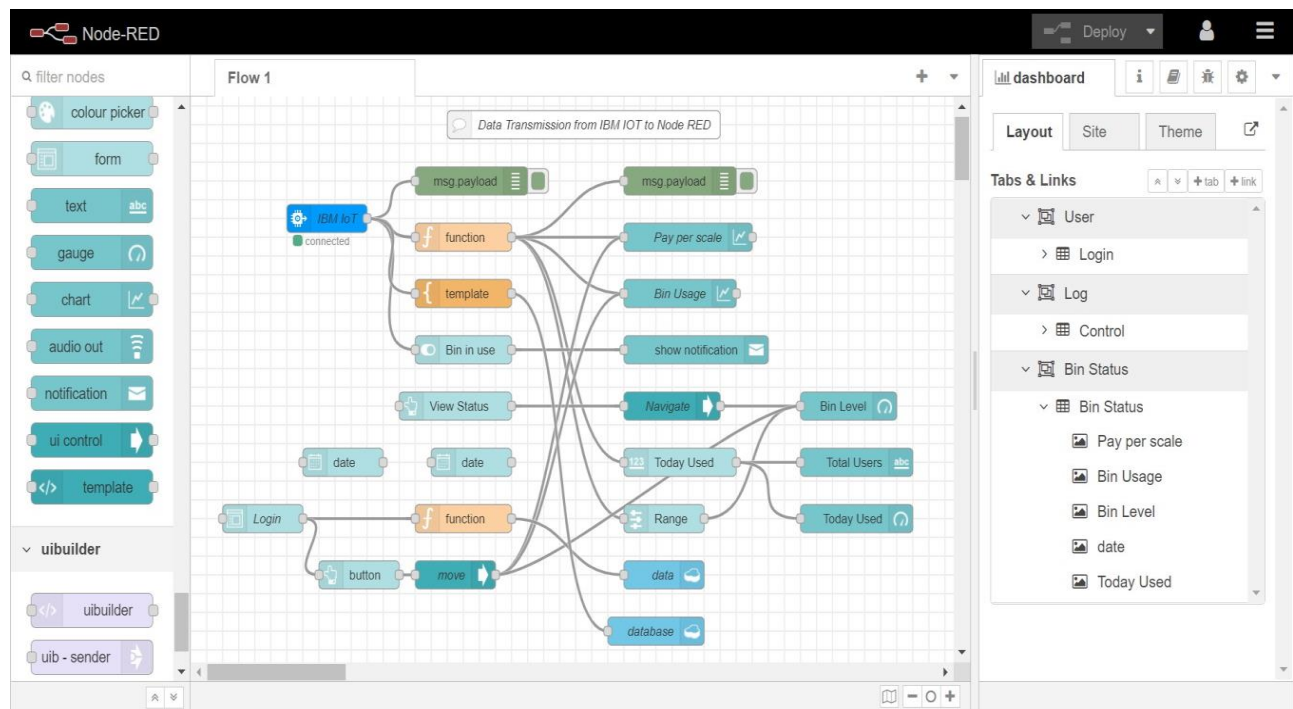


Delivery of Sprint – 4

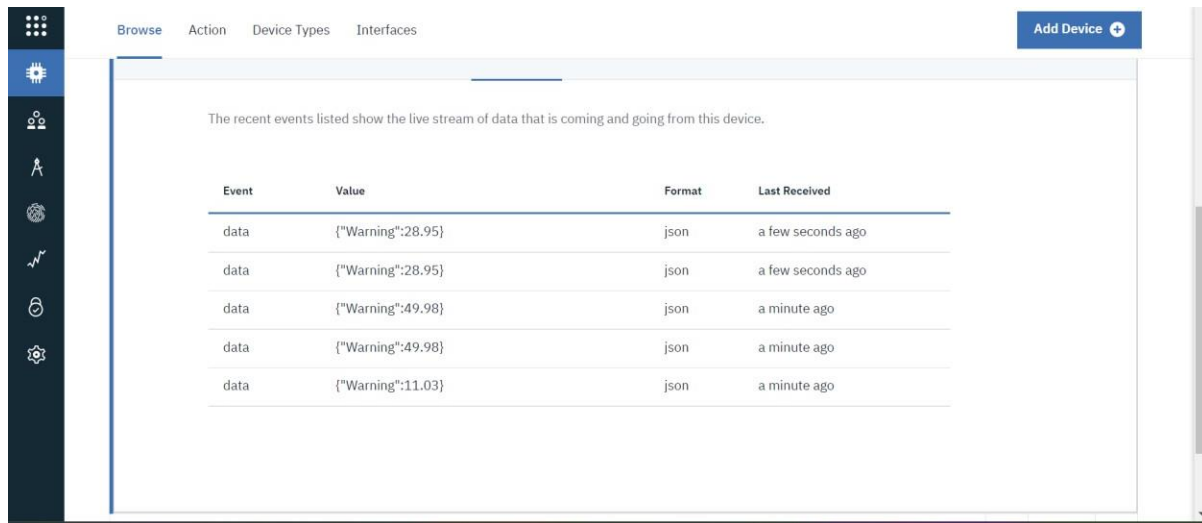
Web UI Design and Deploy

Date	8 November 2022
Team ID	PNT2022TMID17698
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.



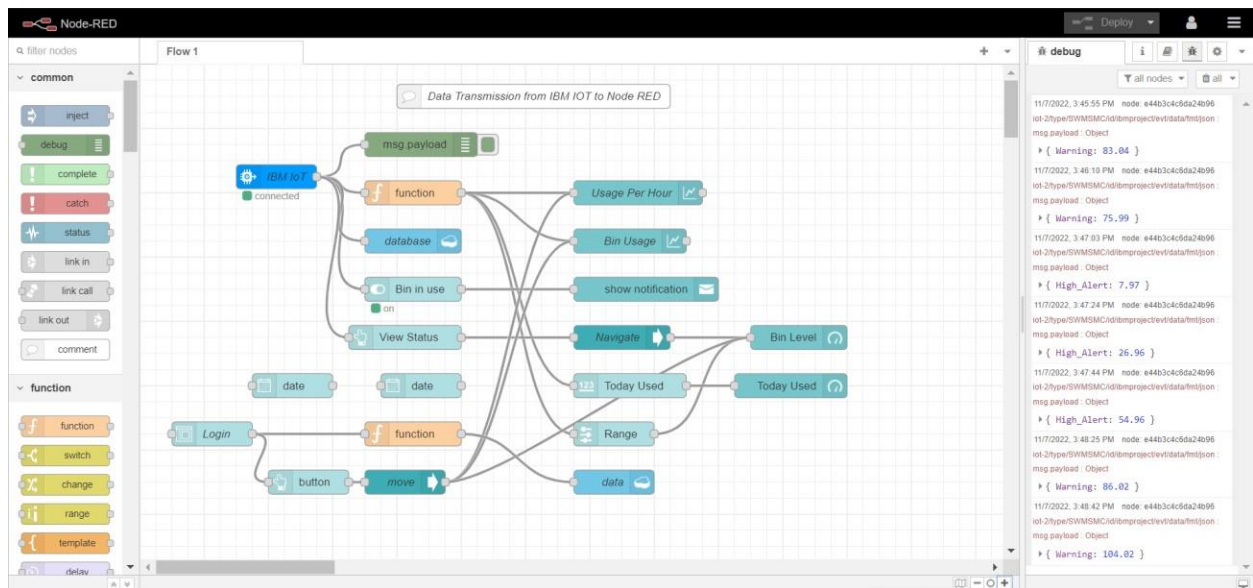
3. Data transfer to Watson IOT platform.



The screenshot shows the IBM Watson IoT Platform interface. On the left is a dark sidebar with icons for home, devices, data, and settings. The main area has 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 is a table with four columns: 'Event', 'Value', 'Format', and 'Last Received'.

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 'Databases' header with a 'Database name' dropdown, a 'Create Database' button, and icons for JSON, a book, and a bell. Below this is 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 view, lock, delete]
noderedwjldy20221105	37.4 KB	4	No	[Icons for view, lock, delete]
sample	59.4 KB	351	No	[Icons for view, lock, delete]
sensor_data	15.7 KB	90	No	[Icons for view, lock, delete]

At the bottom right, it says 'Showing 1-4 of 4 databases. Databases per page: 20' with navigation arrows.

The screenshot shows the IBM Cloudant interface for the 'sensor_data' database. On the left is a sidebar with links: 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area has a 'Document ID' dropdown, 'Options', 'JSON' icon, a book icon, and a bell icon. Below these are tabs for 'Table', 'Metadata', and 'JSON', with a 'Create Document' button. The 'Table' view displays a list of documents with columns 'id', 'key', and 'value'. The 'value' column shows JSON snippets like '{"rev": "1-cde2dd17c519394df..."}'. At the bottom right, it says 'Showing document 1 - 20. Documents per page: 20' with navigation arrows.

6. Data is stored in JSON format

↔

sensor_data > 0198213c192cb2c244cc2433f1802b91

{}JSON

🔔

Save Changes Cancel

Upload Attachment Clone Document Delete

1-12

```
{
  "_id": "0198213c192cb2c244cc2433f1802b91",
  "_rev": "1-cde2dd17c519394dfb774730c495f8b",
  "topic": "iot-2/type/SWMSMC/id/ibmproject/evt/data/fmt/json",
  "payload": {
    | "Warning!!": "244.971left"
  },
  "deviceId": "ibmproject",
  "deviceType": "SWMSMC",
  "eventType": "data",
  "format": "json"
}
```

Log Out

7. Web UI

Log

Bin Status

Control

Bin in use

Range

Today Used 0

date 06/11/2022

VIEW STATUS

Control

Bin in use



Range



Today Used



0



date



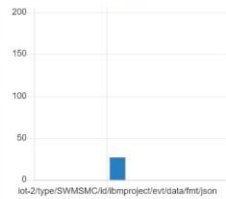
06/11/2022



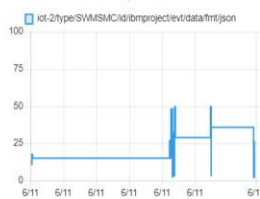
VIEW STATUS

Bin Status

Bin Level



Today Used



Bin Level



date 06/11/2022

Today Used



