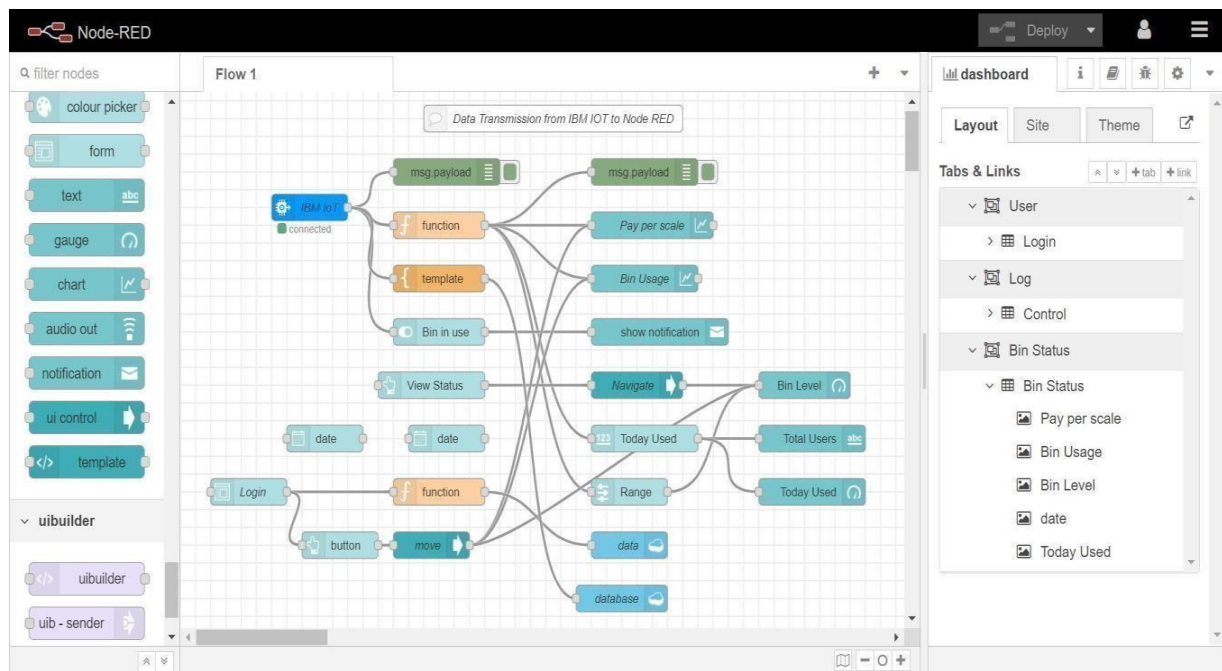


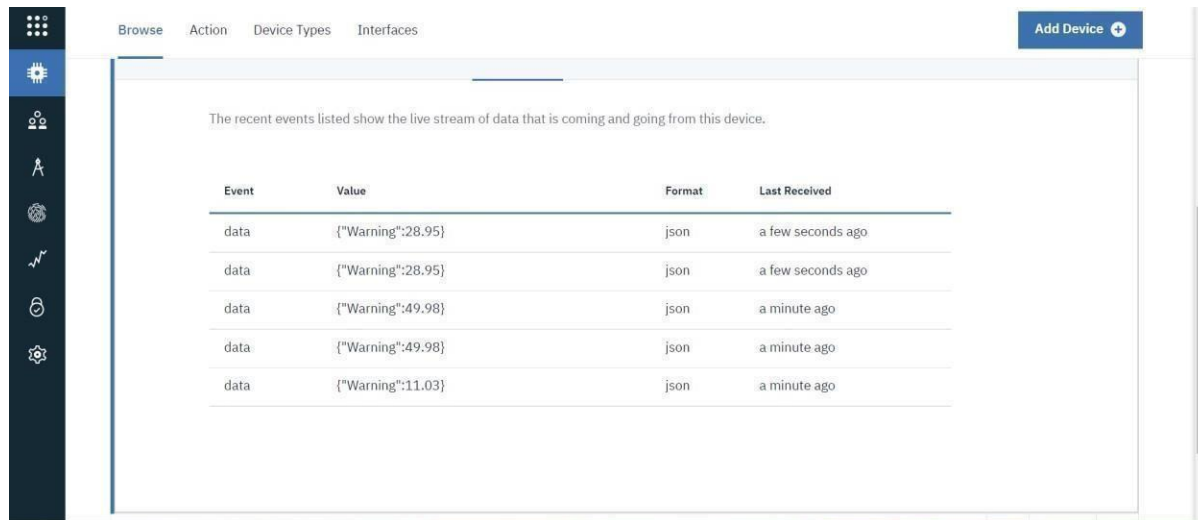
Delivery of Sprint – 4

Date	13 November 2022
Team ID	PNT2022TMID50056
Project Name	IOT Based Smart Waste Management for MetropolitanCities

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



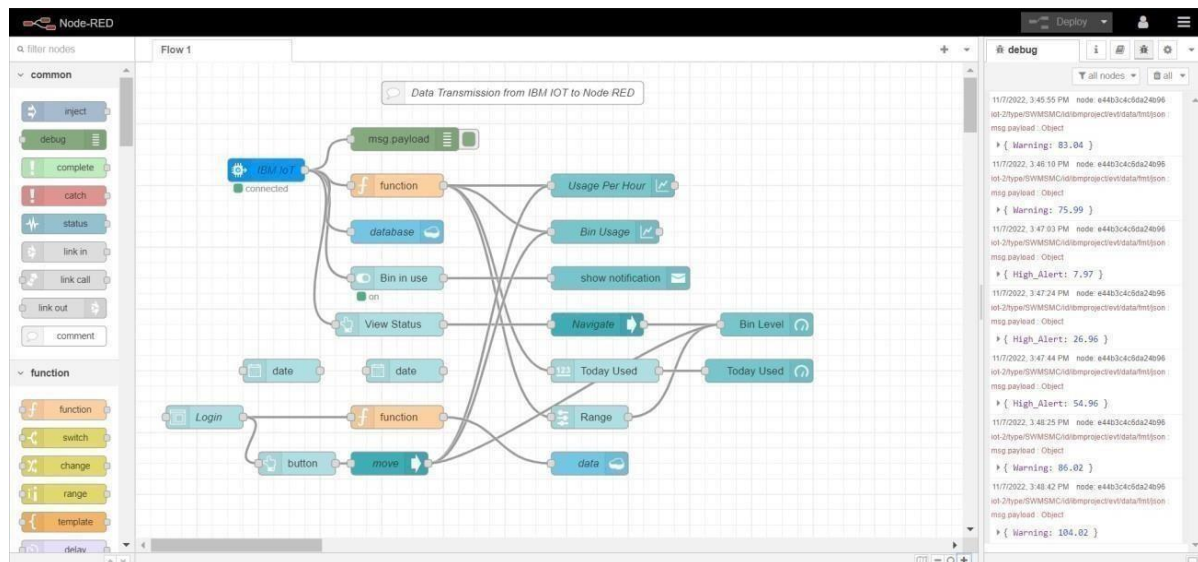
3. Data transfer to Watson IOT platform.



The screenshot shows the IBM Watson IoT Platform interface. 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 four columns: 'Event', 'Value', 'Format', and 'Last Received'. The table contains five rows of data, all with 'data' as the event and 'json' as the format. The values are JSON objects representing warning levels, and the 'Last Received' column shows timestamps like 'a few seconds ago' and 'a minute ago'.

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' page. On the left is a dark sidebar with navigation icons. The main area is titled 'Databases' and includes a 'Database name' dropdown, a 'Create Database' button, and icons for JSON, a book, and a bell. Below this is a section '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]
noderedwjldy20221105	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, it says 'Showing 1–4 of 4 databases.' and 'Databases per page: 20' with a dropdown arrow.

The screenshot shows the 'sensor_data' document view in IBM Cloudant. The left sidebar has a 'sensor_data' header and a menu with 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area has a 'Document ID' dropdown, 'Options', JSON icon, book icon, and bell icon. Below these are tabs for 'Table', 'Metadata', and 'JSON', with a 'Create Document' button. The 'Table' tab is active, showing a table with columns 'id', 'key', and 'value'. The table contains 10 rows of document data, each with a checkbox on the left. The bottom status bar indicates 'Showing document 1 - 20.' and 'Documents per page: 20' with a dropdown arrow.

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-cde2dd17c519394dfb774730c495f8b",

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 }

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

