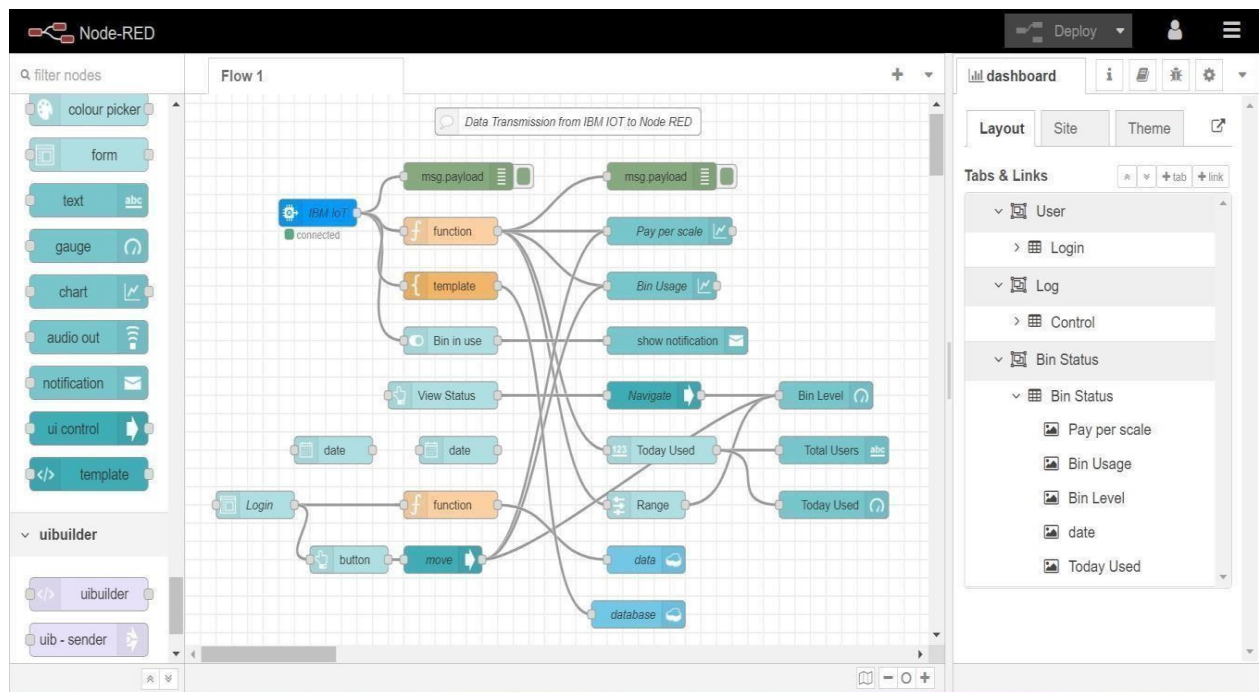


## Delivery of Sprint – 4

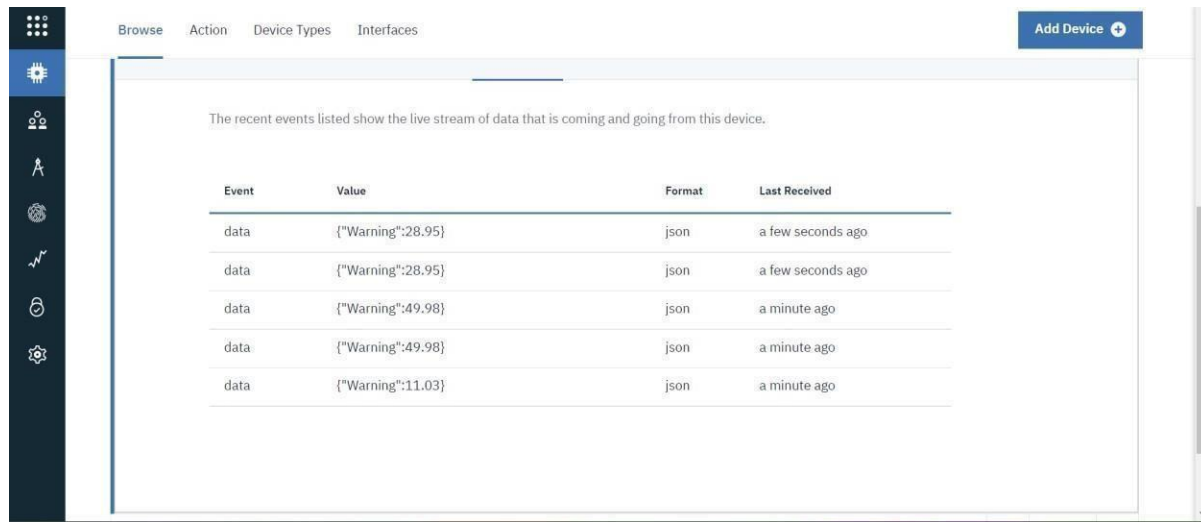
TEAM ID	PNT2022TMID45478
PROJECT NAME	PROJECT- SMART WASTE MANGEMENT FOR METROPOLITAN CITIES

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





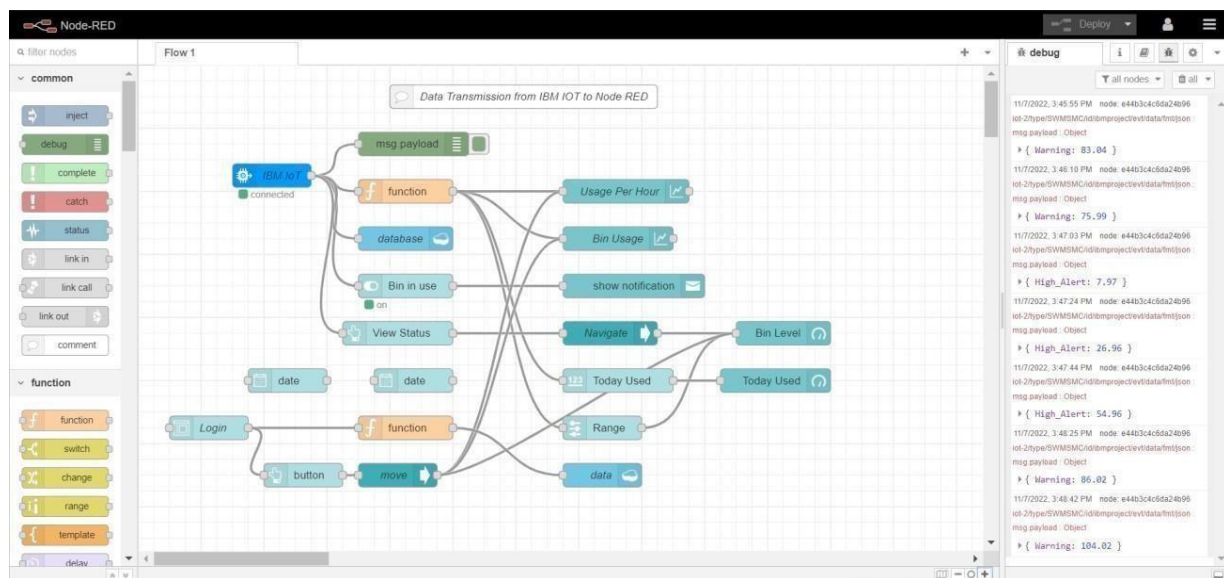
### 3. Data transfer to Watson IOT platform.



The screenshot shows the IBM Watson IoT Platform interface. 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 the following data:

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 header with the title "Databases", a "Database name" dropdown, a "Create Database" button, and icons for JSON, a book, and a bell. Below the header, there's 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 edit, lock, delete]
noderedwjlidy20221105	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 of the interface, it says "Showing 1-4 of 4 databases." and "Databases per page: 20". There's also a "Log Out" button in the bottom left corner.

The screenshot shows the IBM Cloudant interface for the "sensor\_data" database. The left sidebar has a "sensor\_data" header and a menu with "All Documents", "Query", "Permissions", "Changes", and "Design Documents". The main area shows a table of documents with columns "id", "key", and "value". The table contains 10 rows of document data, each with a unique ID and key, and a JSON value. At the bottom, it says "Showing document 1 - 20." and "Documents per page: 20". There's also a "Log Out" button in the bottom left corner.

id	key	value
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c6c..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-f96eb0460bc16cfab0..." }
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-7226f08794cd47b7c..." }
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-1bbdd9a985bd56cf9..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-7226f08794cd47b7c..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-3ad288ecad57f039e..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1bbdd9a985bd56cf9..." }
298ed6fhd9b3b815f5ac7c061e...	298ed6fhd9b3b815f5ac7c061e...	{ "rev": "1-4e7240f6e5307a1h9..." }

## 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-cde2dd17c519394dfcb774738c495f8b",

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

VIEW STATUS

Log

Control

Bin in use

Range

Today Used

date

VIEW STATUS

