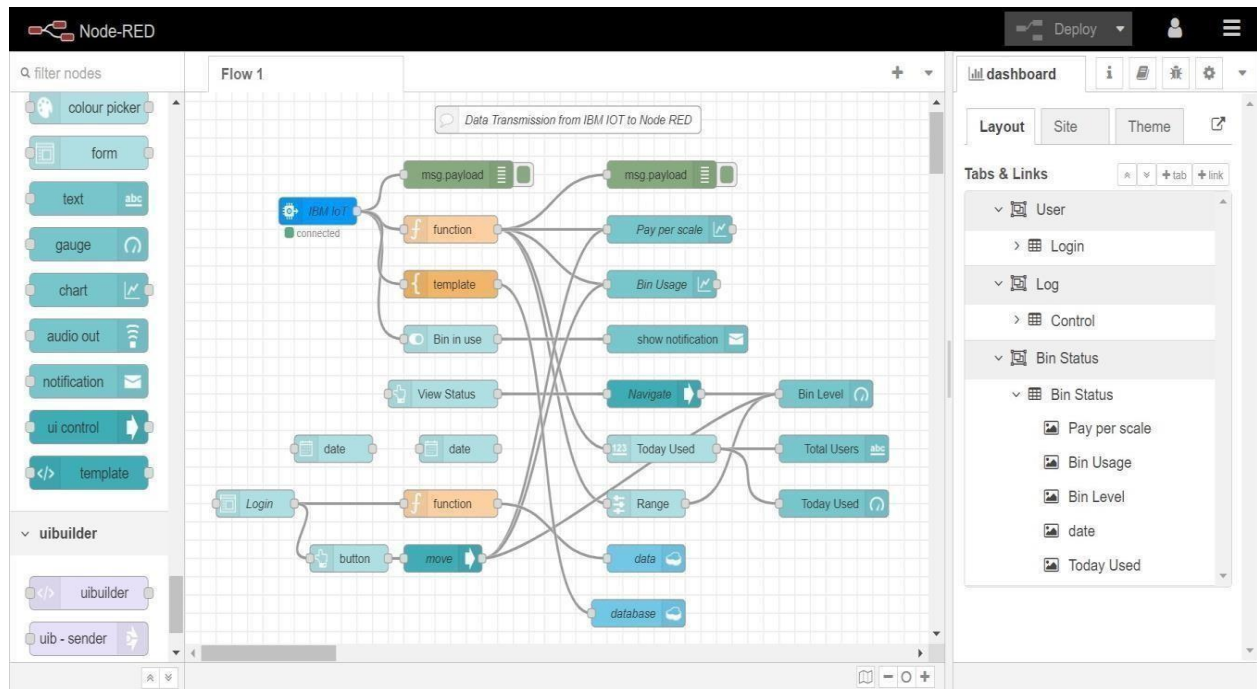


## Delivery of Sprint – 4

Date	14 nov 2022
Team ID	PNT2022TMID01714
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.

77





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

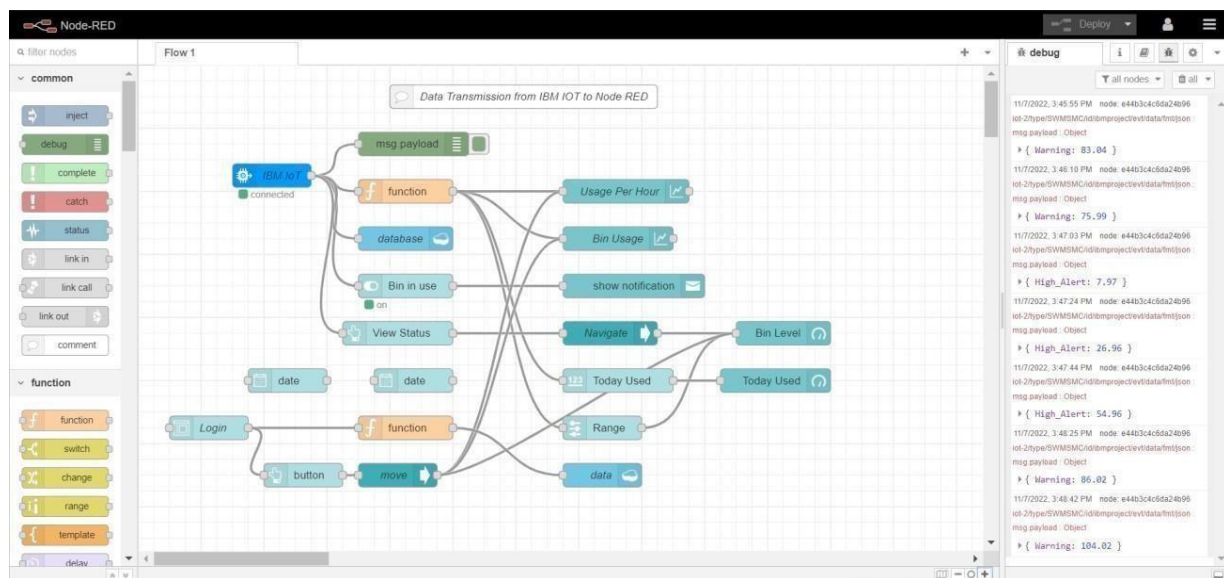
BrowseActionDevice TypesInterfaces

Add Device +

The recent events listed show the live stream of data that is coming and going from this device.

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. At the top, there's 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 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, 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 links for 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area has tabs for 'Table', 'Metadata', and 'JSON', with a 'Create Document' button. The 'Table' tab is active, showing a list of documents with columns 'id', 'key', and 'value'. The first few rows are:

id	key	value
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c6c..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-f96eb0460bc16cfab0..." }

At the bottom, it says '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-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 06/11/2022

VIEW STATUS

---

Bin Level

Today Used

Bin Level



Us«

27gallons