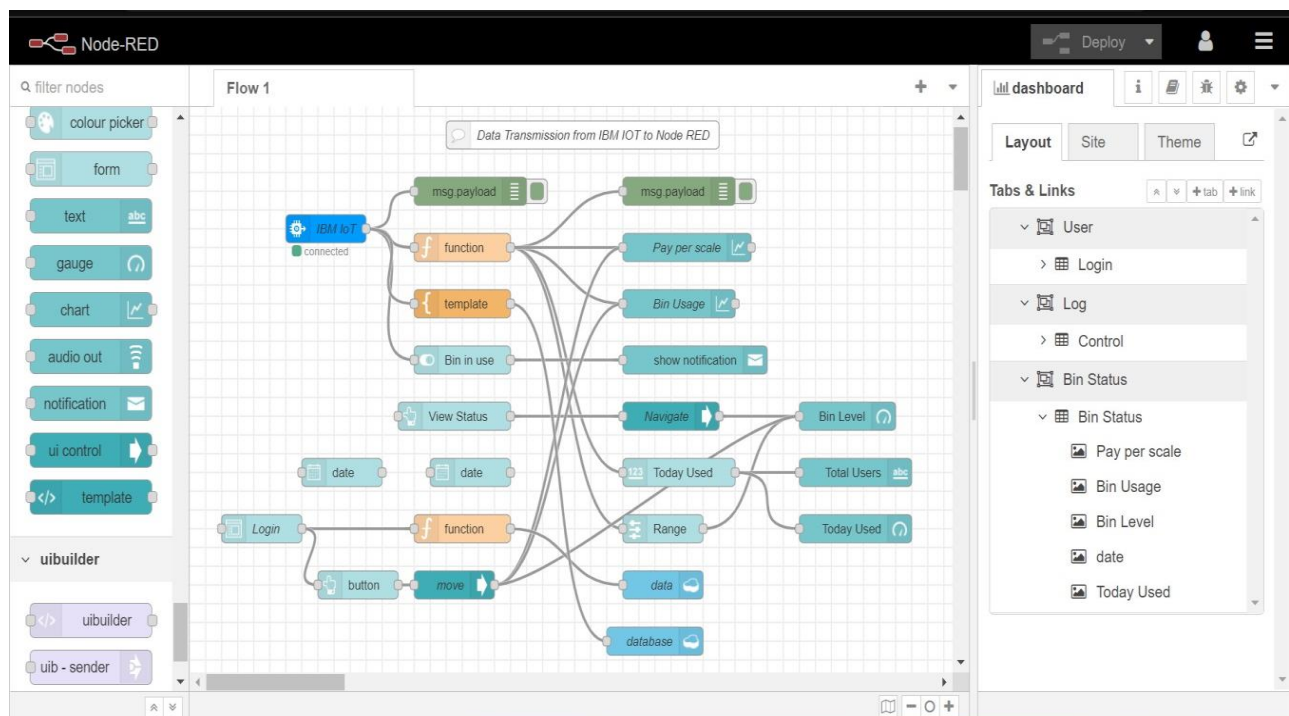


Delivery of Sprint – 4

Web UI Design and Deploy

Team ID	PNT2022TMID52320
Project Name	Smart Waste Management for Metropolitan Cities - IOT

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



3. Data transfer to Watson IOT platform.

IBM Watson IoT Platform

?

ID: 9gbe4w

Browse

Action

Device Types

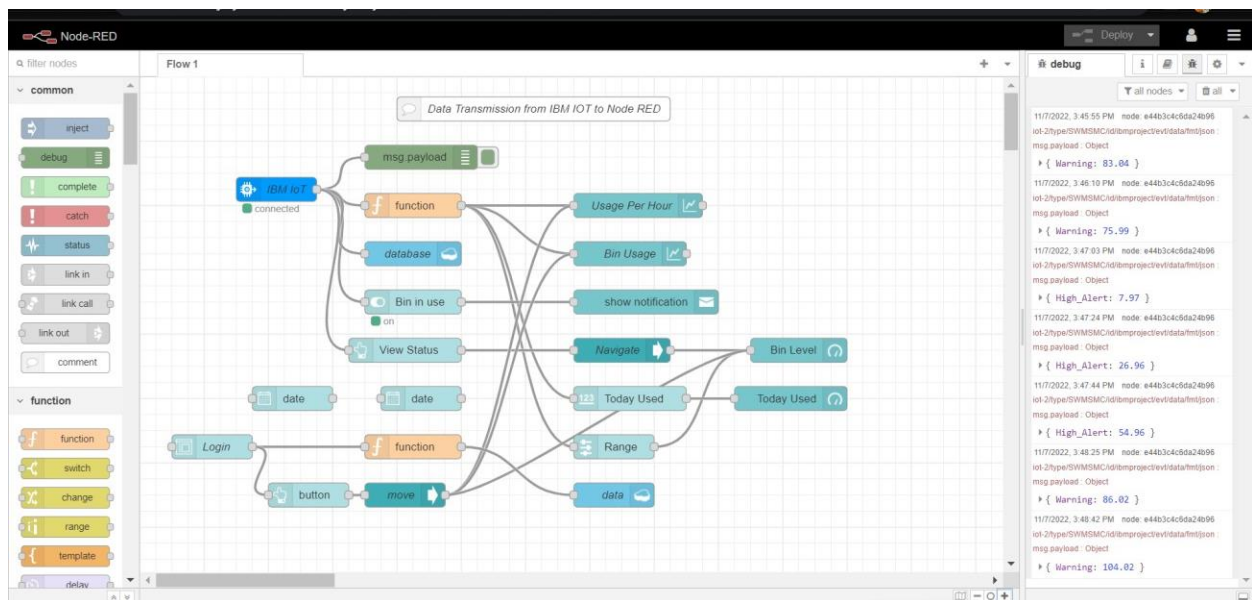
Interfaces

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 interface. At the top, there's a header with a 'Database name' dropdown, a 'Create Database' button, and icons for JSON, a book, and a bell. Below the header, the 'Your Databases' section displays a table with the following data:

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	[Icons for view, edit, delete]
noderedwjldy20221105	37.4 KB	4	No	[Icons for view, edit, delete]
sample	59.4 KB	351	No	[Icons for view, edit, delete]
sensor_data	15.7 KB	90	No	[Icons for view, edit, delete]

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

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 view of documents with columns 'id', 'key', and 'value'. The 'value' column contains JSON documents, each with a 'rev' field. The first document has a 'rev' of '1-cde2dd17c519394df...', the second '1-d26c5b40891e13c6c...', and so on. At the bottom, it says 'Showing document 1 - 20. Documents per page: 20' with pagination controls.

6. Data is stored in JSON format

↔

sensor_data > 0198213c192cb2c244cc2433f1802b91

{ }JSON

📖

🔔

📈

🗄️

📊

👤

🔍

📖

🏠

Log Out

✔ 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!!": "244.971left"

7 },

8 "deviceId": "ibmproject",

9 "deviceType": "SWMSMC",

10 "eventType": "data",

11 "format": "json"

12 }


7. Web UI

☰ Log

📊 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

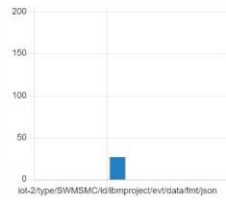
date

06/11/2022

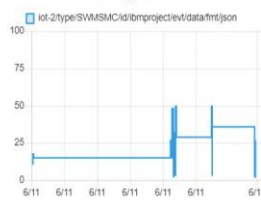
VIEW STATUS

Bin Status

Bin Level



Today Used



Bin Level



date 06/11/2022

Today Used



