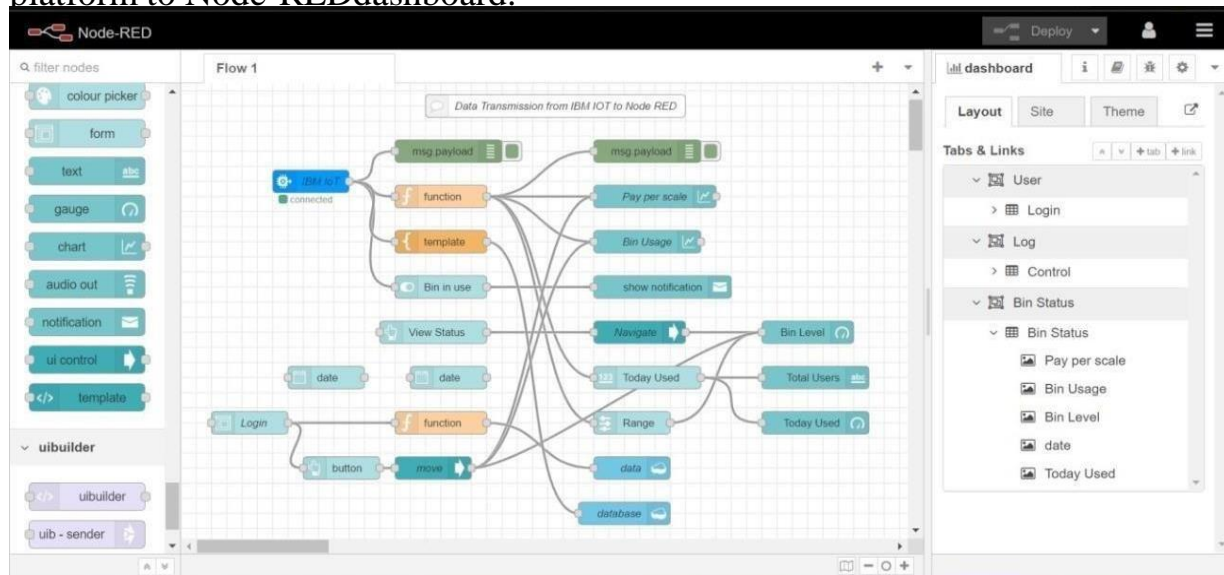


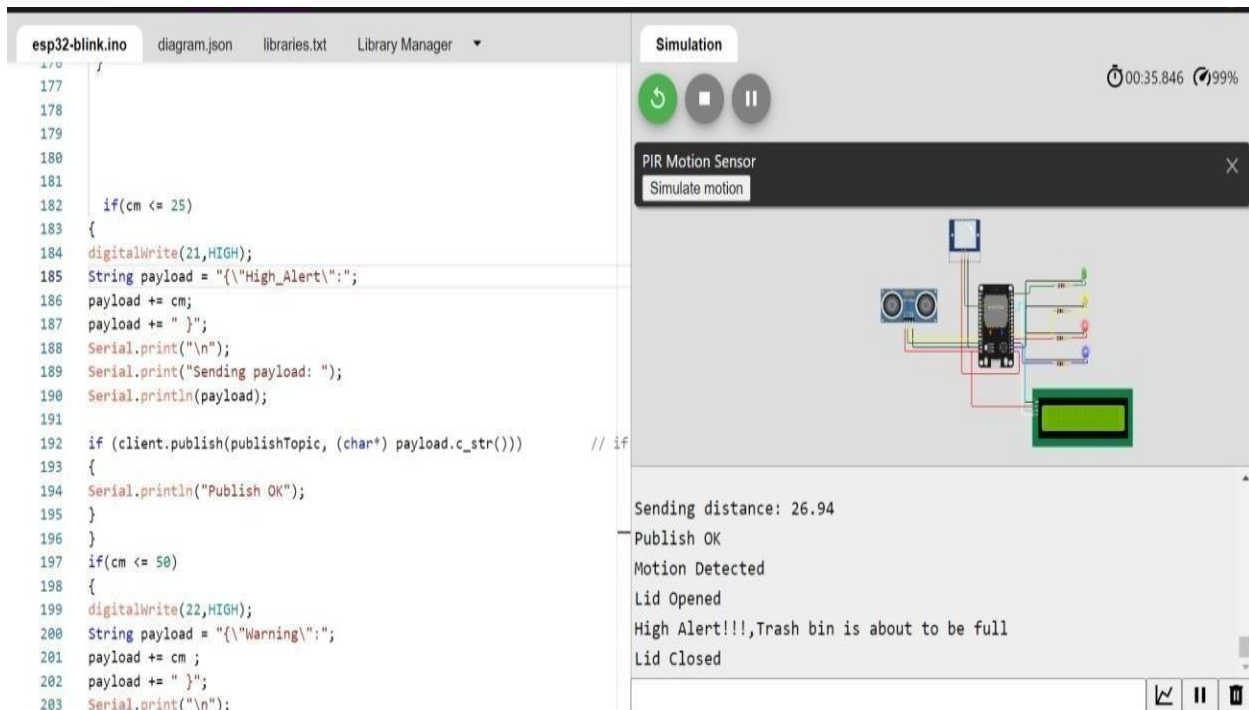
Delivery of Sprint – 3
Node Red Connection to IBM
Cloudant

Date	10 November 2022
Team ID	PNT2022TMID17548
Project Name	Smart Waste Management System For Metropolitan Cities

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



2. Simulate Wokwi connection to transmit data from wokwi account to IBM Watson IOT platform and then to Node Red dashboard.



3.Data transfer to Watson IOT platform.

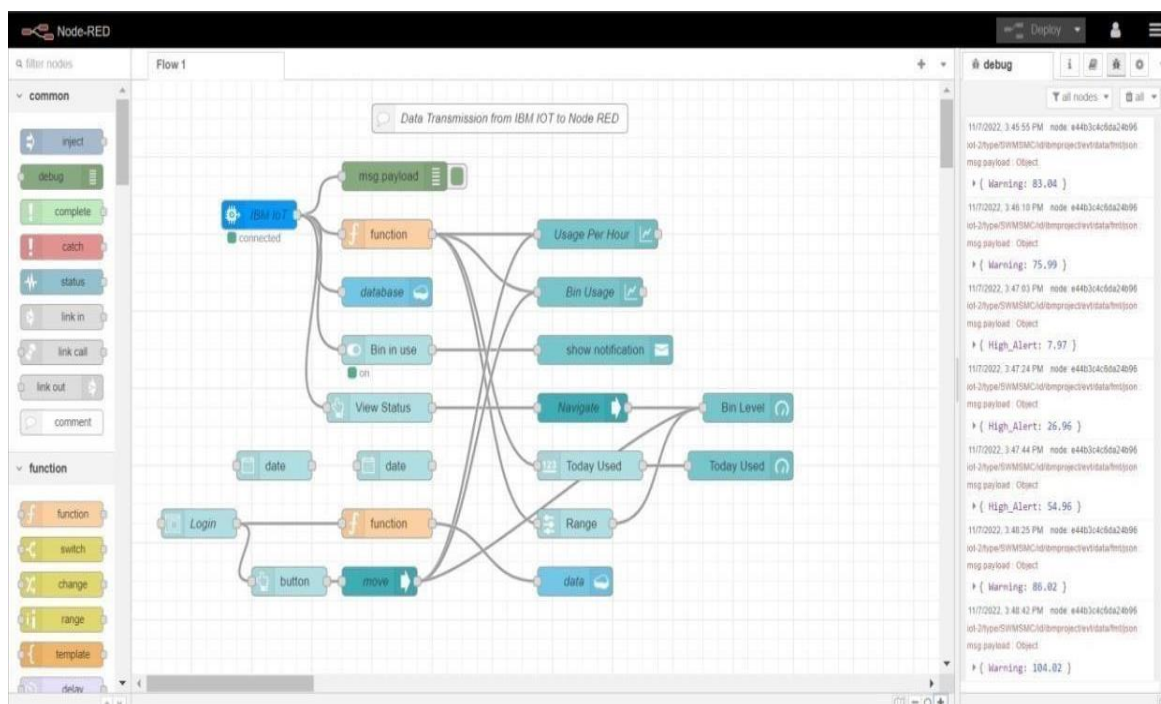
BrowseActionDevice TypesInterfaces

Add Device +

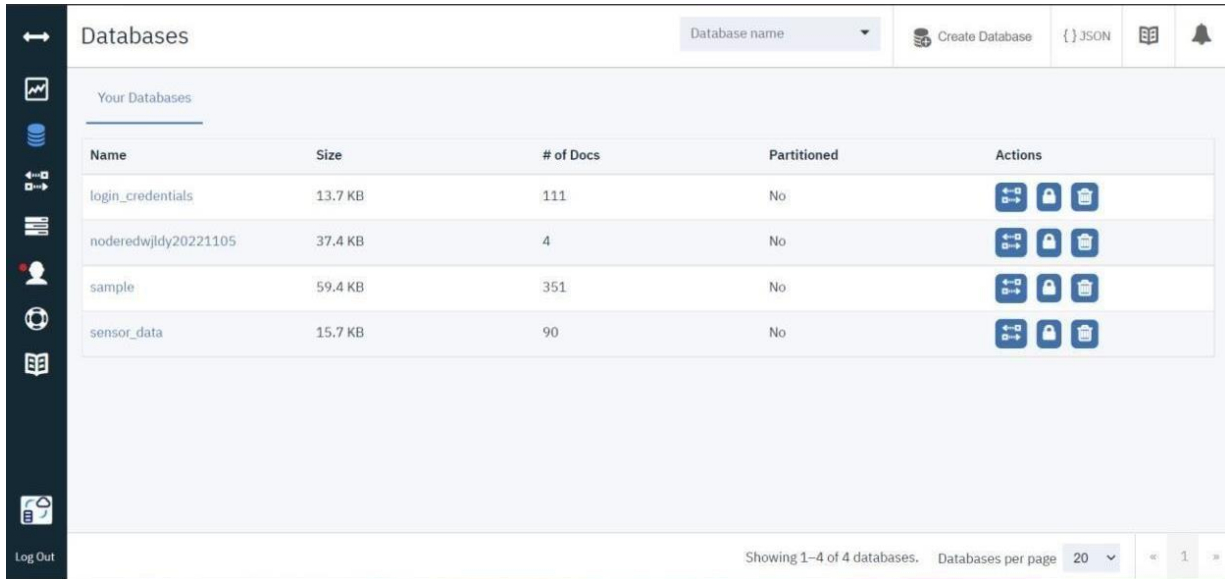
The recent events listed show the live stream of data that is coming and going from this device.

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.

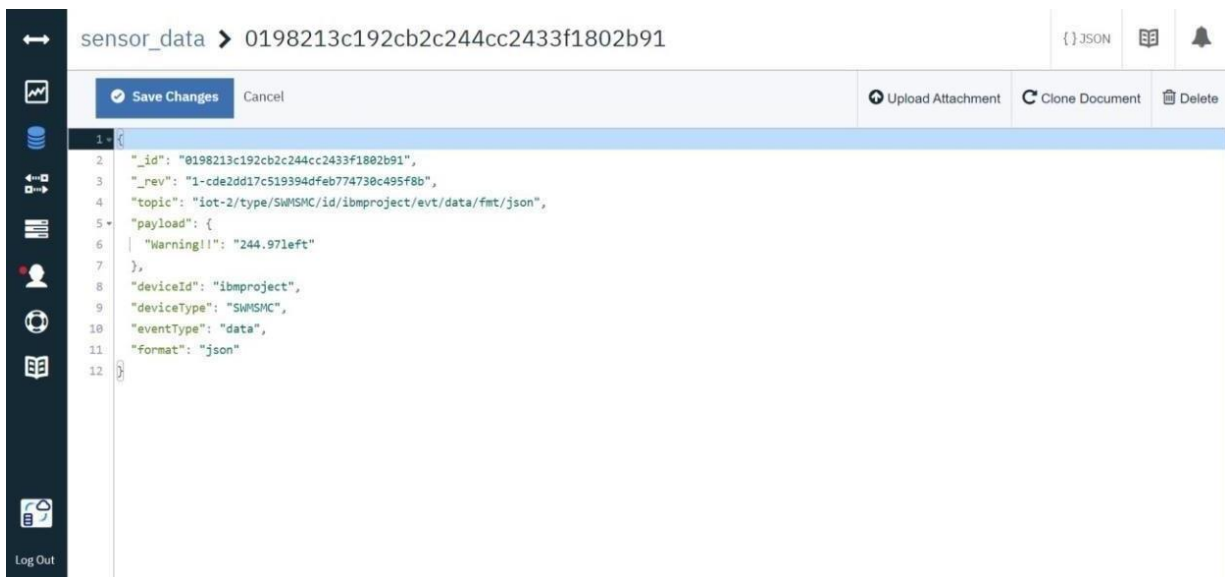


The screenshot shows the IBM Cloudant Databases interface. At the top, there's a header with the title 'Databases', a 'Database name' dropdown, and buttons for 'Create Database', 'JSON', and a notification bell. Below the header, there's a section titled 'Your Databases' containing a table with the following data:

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

At the bottom of the table, it says 'Showing 1-4 of 4 databases.' and 'Databases per page' with a dropdown set to '20'. There are also navigation arrows and a page number '1'. A 'Log Out' button is visible in the bottom left corner of the sidebar.

6. Data is stored in JSON format



The screenshot shows the IBM Cloudant document editor for the 'sensor_data' database. The document ID is '0198213c192cb2c244cc2433f1802b91'. The document is displayed in a code editor with line numbers. The JSON content is as follows:

```
1 {
2   "_id": "0198213c192cb2c244cc2433f1802b91",
3   "_rev": "1-cde2dd17c519394dfcb774730c495f8b",
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 }
```

At the top of the editor, there are buttons for 'Save Changes', 'Cancel', 'Upload Attachment', 'Clone Document', and 'Delete'. The 'JSON' button is also visible in the top right corner. A 'Log Out' button is in the bottom left corner of the sidebar.