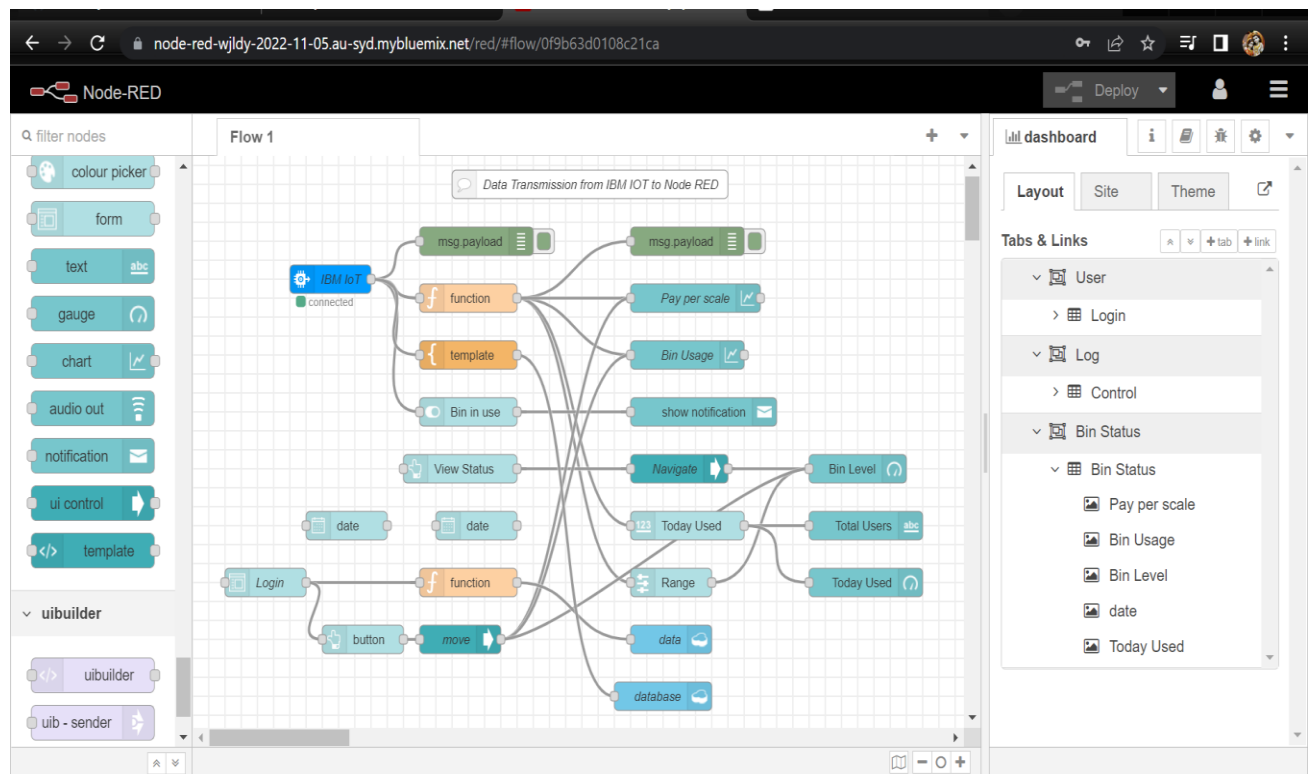


Delivery of Sprint – 4

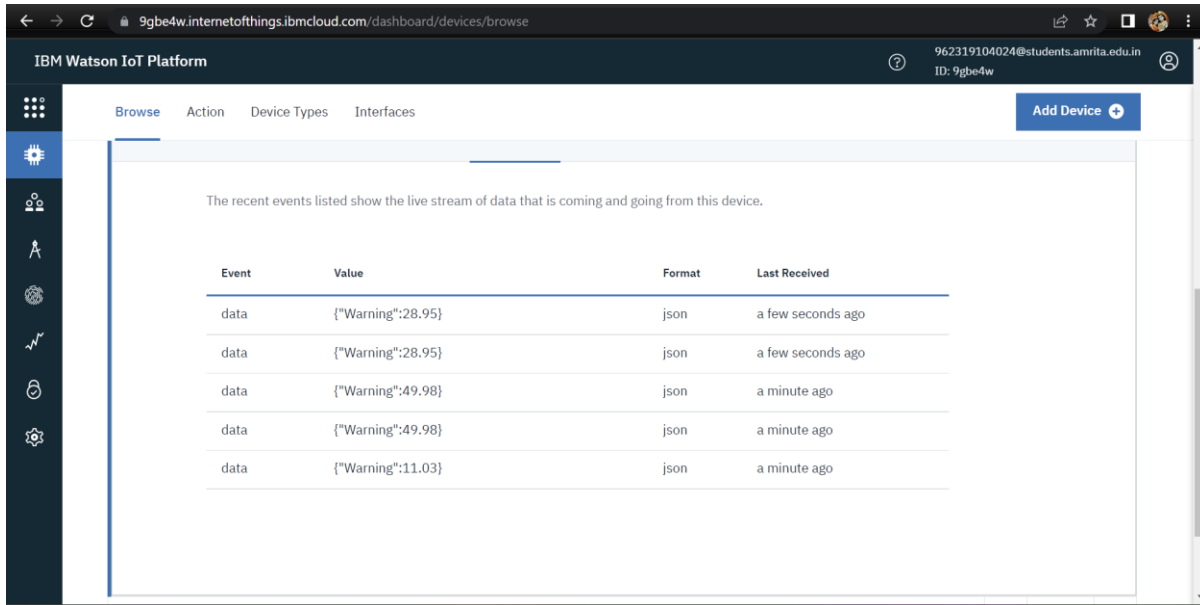
Web UI Design and Deploy

Date	5 November 2022
Team ID	PNT2022TMID17577
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.



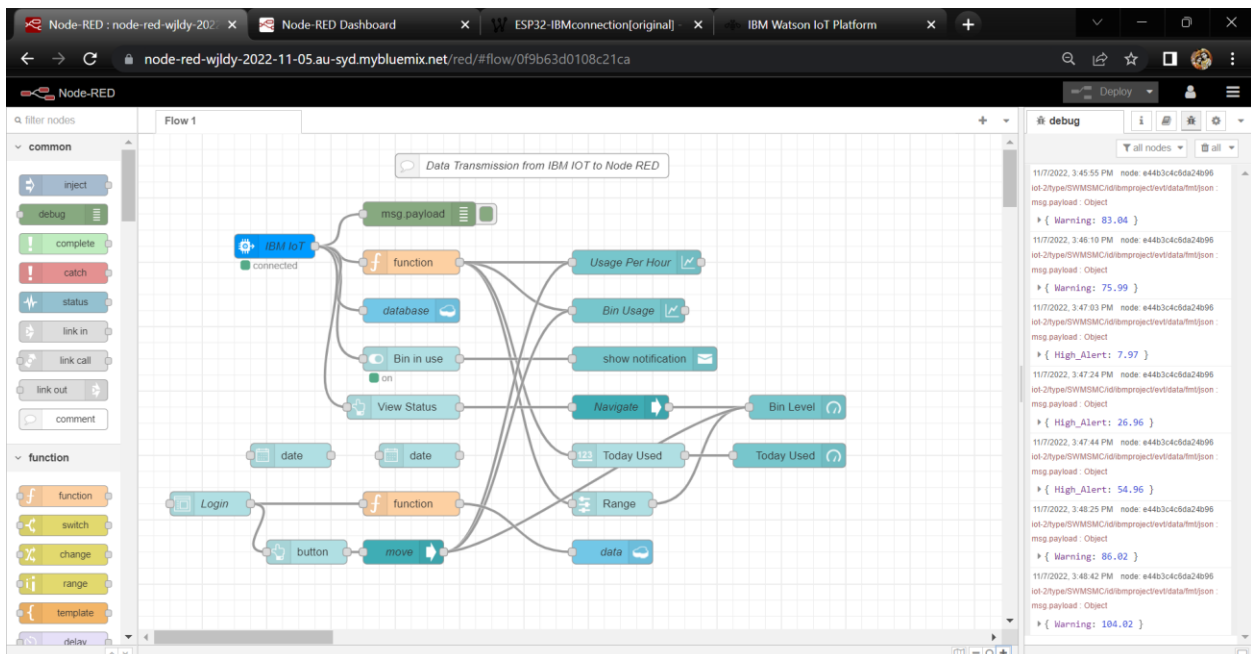
3. Data transfer to Watson IOT platform.



The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes "Browse", "Action", "Device Types", and "Interfaces". A sidebar on the left contains various icons for navigation. The main content area displays a table of recent events. The table has four columns: "Event", "Value", "Format", and "Last Received". The events listed are all "data" events with JSON values representing warning levels, in "json" format, received "a few seconds ago" or "a minute ago".

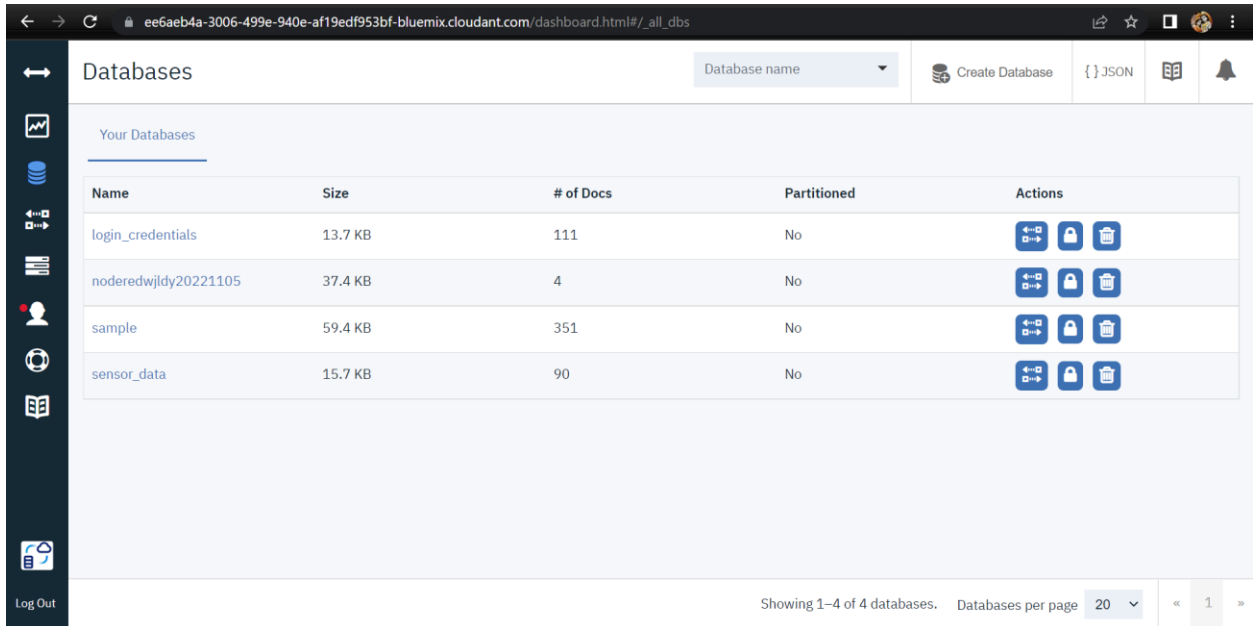
Event	Value	Format	Last Received
data	{"Warning":28.95}	json	a few seconds ago
data	{"Warning":28.95}	json	a few seconds ago
data	{"Warning":49.98}	json	a minute ago
data	{"Warning":49.98}	json	a minute ago
data	{"Warning":11.03}	json	a minute ago

4. Data transfer from IBM Watson IOT platform and wokwi to Node red.



The screenshot shows a Node-RED flow diagram titled "Data Transmission from IBM IOT to Node RED". The flow starts with an "IBM IoT" node (connected) and a "Wokwi" node (connected). These nodes feed into a "msg payload" node. The flow then branches into several parallel processing paths. One path goes through a "function" node, then a "database" node, and finally a "Bin in use" node. Another path goes through a "function" node, then a "date" node, and finally a "button" node. A third path goes through a "function" node, then a "date" node, and finally a "move" node. The flow also includes nodes for "Usage Per Hour", "Bin Usage", "show notification", "Navigate", "Bin Level", "Today Used", "Range", and "data". The flow ends with a "Login" node. The right sidebar shows the "debug" console with a log of messages received from the IBM IoT node, including warning levels and high alerts.

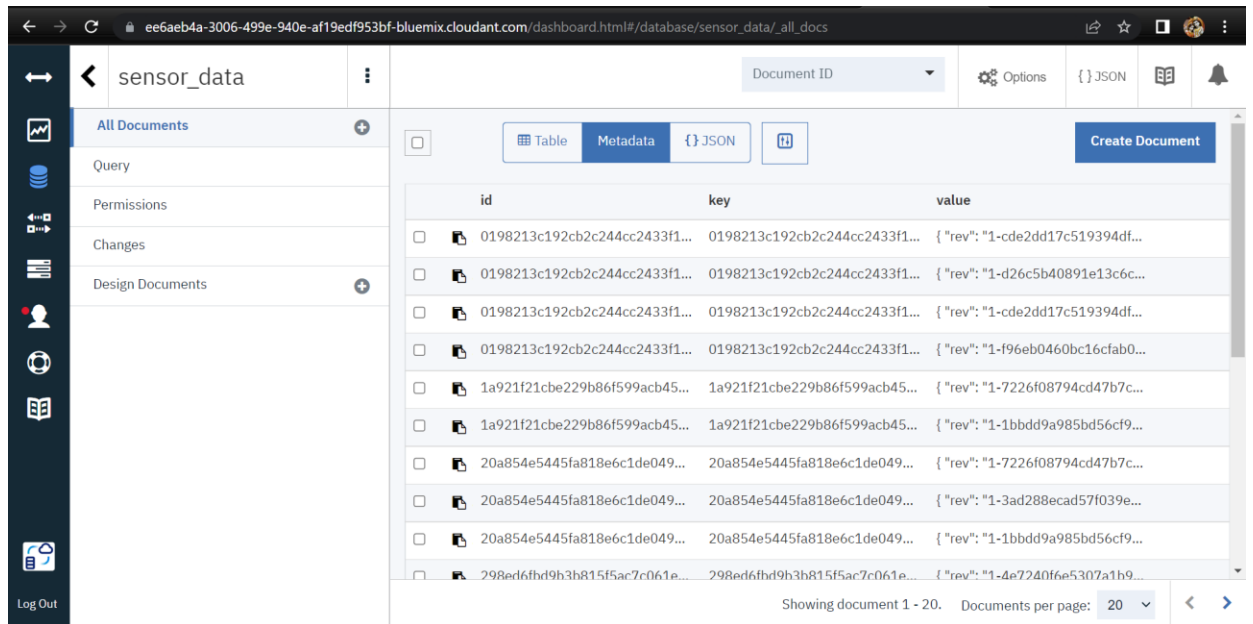
5 . Storing database in IBM cloudant DB.



The screenshot shows the IBM Cloudant Databases dashboard. The URL is `ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/all_dbs`. The page title is "Databases". There is a "Database name" dropdown, a "Create Database" button, and buttons for JSON, a book icon, and a bell icon. The main section is "Your Databases" and contains a table with the following data:

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	[Icons: Edit, Lock, Delete]
noderedwjldy20221105	37.4 KB	4	No	[Icons: Edit, Lock, Delete]
sample	59.4 KB	351	No	[Icons: Edit, Lock, Delete]
sensor_data	15.7 KB	90	No	[Icons: Edit, Lock, 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 document view for the "sensor_data" database. The URL is `ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/database/sensor_data/all_docs`. The page title is "sensor_data". There is a "Document ID" dropdown, "Options" button, and buttons for JSON, a book icon, and a bell icon. The main section is "All Documents" and contains a table with the following data:

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": "1-4e7240f6e5307a1b9..." }

At the bottom, it says "Showing document 1 - 20. Documents per page: 20" with pagination controls.

6. Data is stored in JSON format

ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#database/sensor_data/0198213c192cb2c244cc2433f1802b91

sensor_data > 0198213c192cb2c244cc2433f1802b91

Save Changes Cancel Upload Attachment Clone Document Delete

```
1-
2  "_id": "0198213c192cb2c244cc2433f1802b91",
3  "_rev": "1-cde2dd17c519394dfeb774730c495f8b",
4  "topic": "iot-2/type/SWMSMC/id/ibmproject/evt/data/fmt/json",
5  "payload": {
6    | "Warning!!": "244.971eft"
7  },
8  "deviceId": "ibmproject",
9  "deviceType": "SWMSMC",
10 "eventType": "data",
11 "format": "json"
12 }
```

Log Out


7. Web UI


node-red-wjldy-2022-11-05.au-syd.mybluemix.net/ui/#/!0?socketid=mTvbzmznbI9ri5aUmAACX



Log



Log Bin Status


Control

Bin in use 

Range 

Today Used  0 

date  06/11/2022 

 VIEW STATUS

