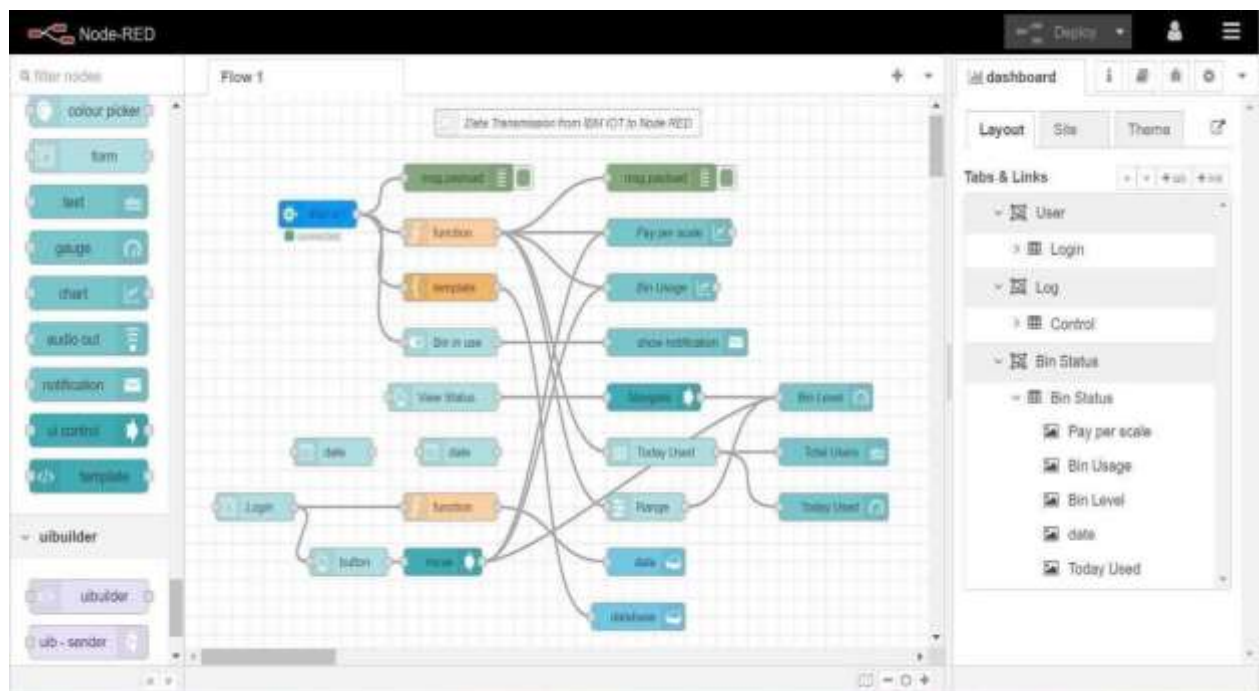
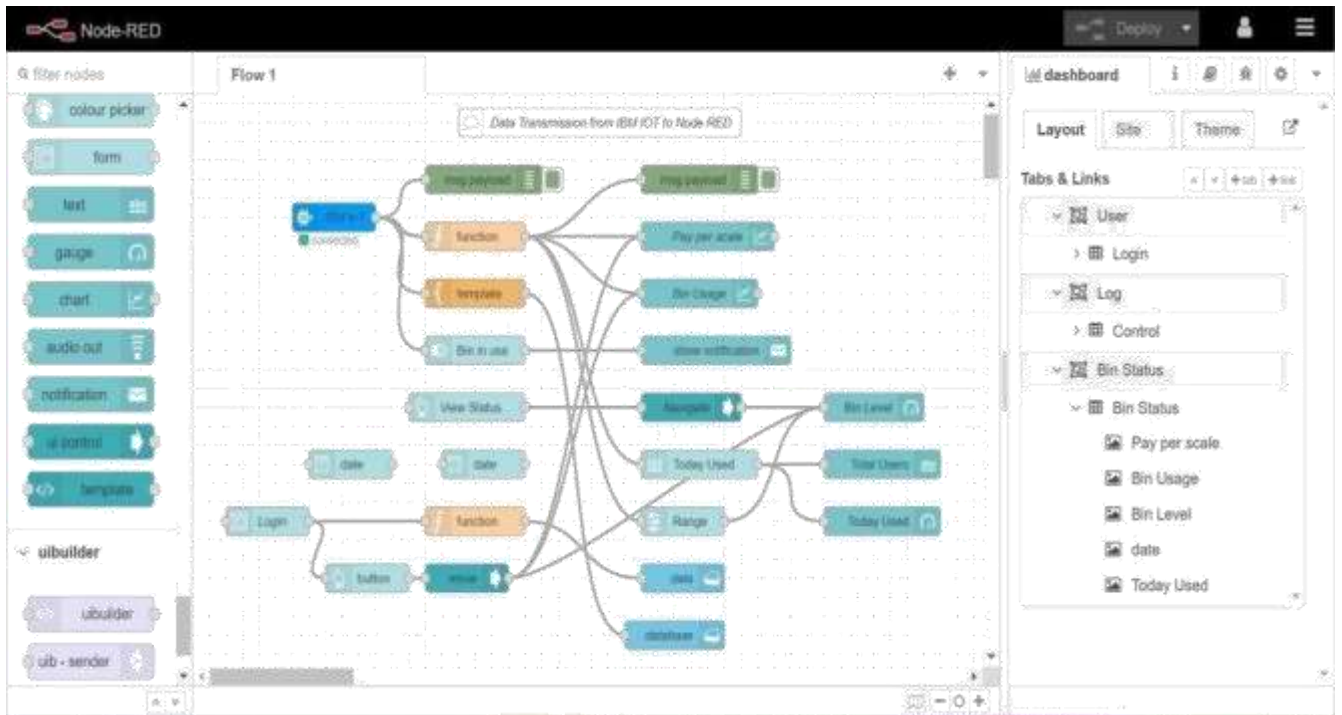


## Delivery of Sprint – 4

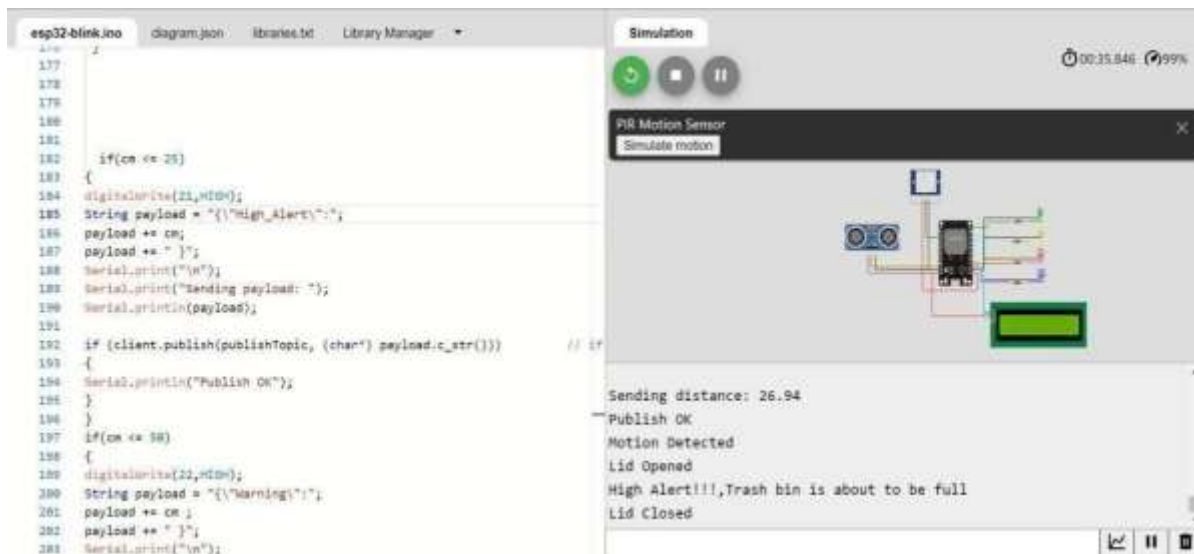
<i>Date</i>	<i>16<sup>th</sup> November 2022</i>
<i>Team ID</i>	<i>PNT2022TMD05389</i>
<i>Project Name</i>	<i>Smart Waste Management for Metropolitan Cities</i>

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





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.

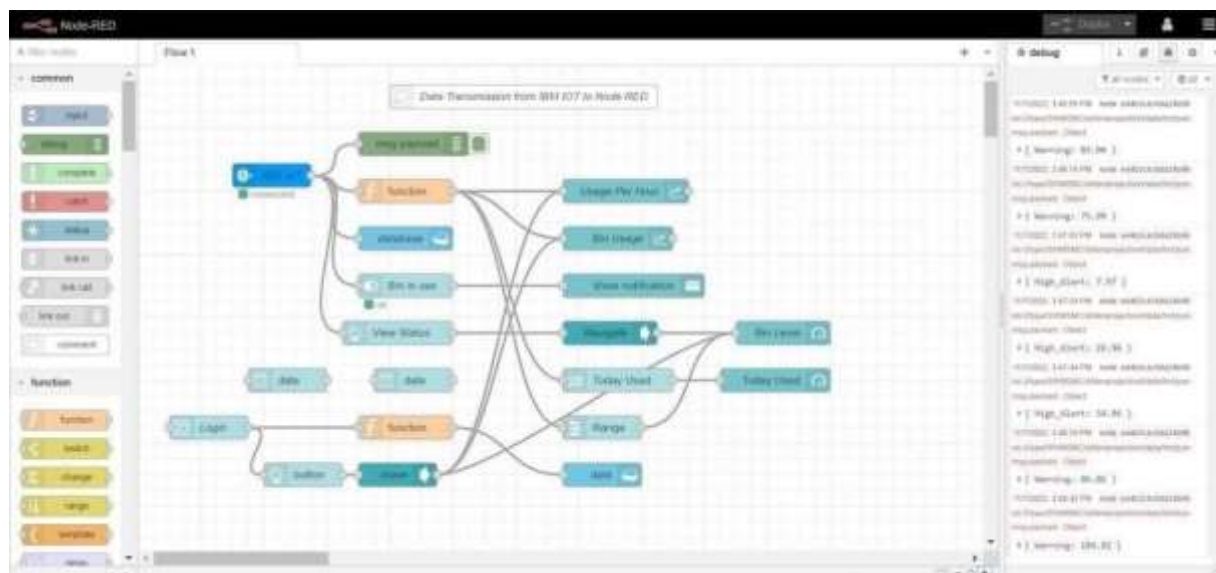
Browse Action Device Types Interfaces
Add Device

---

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":20.95}]	json	a few seconds ago
data	[{"Warning":20.95}]	json	a few seconds ago
data	[{"Warning":49.98}]	json	a minute ago
data	[{"Warning":49.99}]	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.

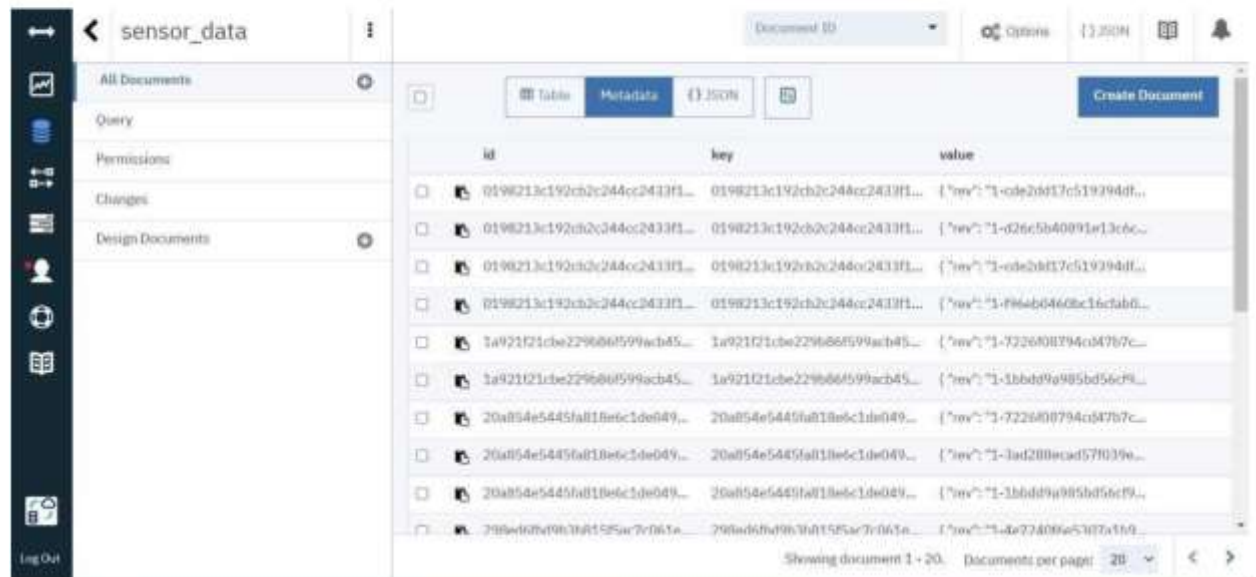


## 5 . Storing database in IBM cloudant DB.



The screenshot shows the IBM Cloudant Databases interface. At the top, there's a header with 'Databases' and a 'Database name' dropdown. Below this, a table lists the databases. The table has columns: Name, Size, # of Docs, Partitioned, and Actions. The databases listed are 'login\_credentials', 'nodemidwidy20221105', 'sample', and 'sensor\_data'. Each database has three action icons: a document icon, a lock icon, and a trash icon. At the bottom, it says 'Showing 1-4 of 4 databases. Databases per page 20'.

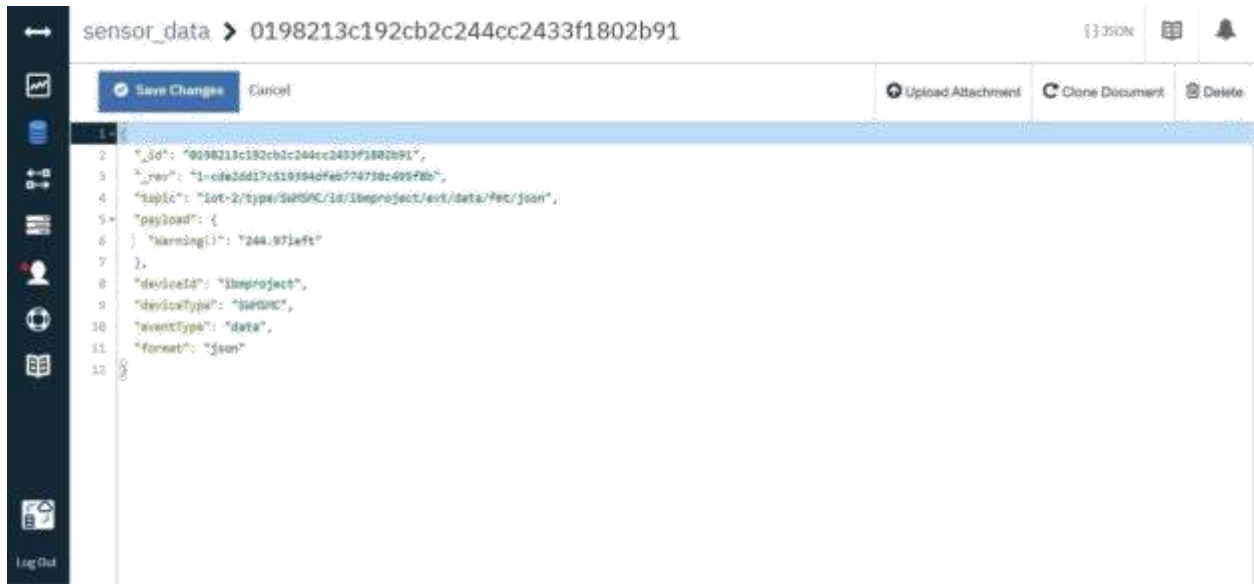
Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	[Icons]
nodemidwidy20221105	37.4 KB	4	No	[Icons]
sample	59.4 KB	351	No	[Icons]
sensor_data	15.7 KB	90	No	[Icons]



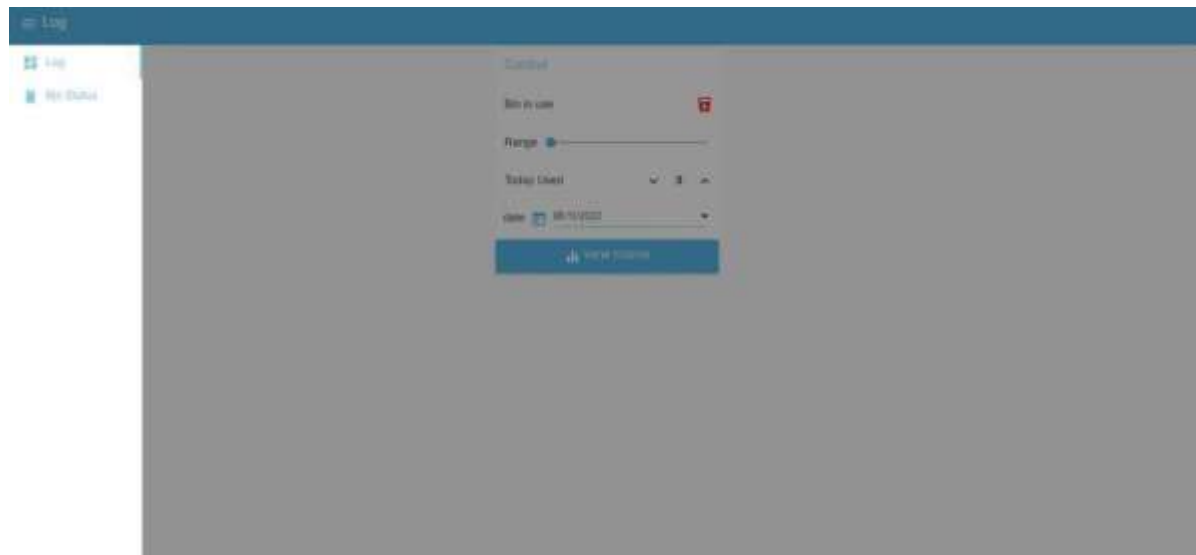
The screenshot shows the IBM Cloudant 'sensor\_data' database view. The left sidebar has options: All Documents, Query, Permissions, Changes, and Design Documents. The main area shows a list of documents in a table with columns: id, key, and value. The documents are listed in a table with checkboxes. At the bottom, it says 'Showing document 1 - 20. Documents per page 20'.

id	key	value
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2b817c519394df...
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c6e...
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2b817c519394df...
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-f864b04608c16cfab6...
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-7226081794c047b7c...
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-1bbdd9a985bd56cf9...
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-7226081794c047b7c...
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1ad208cad57039e...
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1bbdd9a985bd56cf9...
298ad6b9b3b01525ac7c061a...	298ad6b9b3b01525ac7c061a...	{ "rev": "1-4e72409e5307a1b9...

## 6. Data is stored in JSON format



## 7. Web UI



Log

Control

Bin in use 

Range 

Today Used   

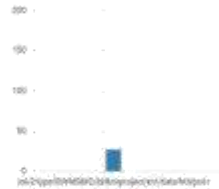
date  06/11/2022 

 VIEW STATUS

Bin Status

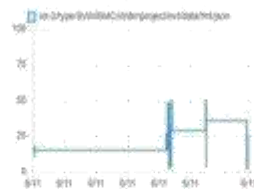
Bin Status

Bin Level



date  06/11/2022

Today Used



Bin Level



Today Used

