

Delivery of Sprint-4

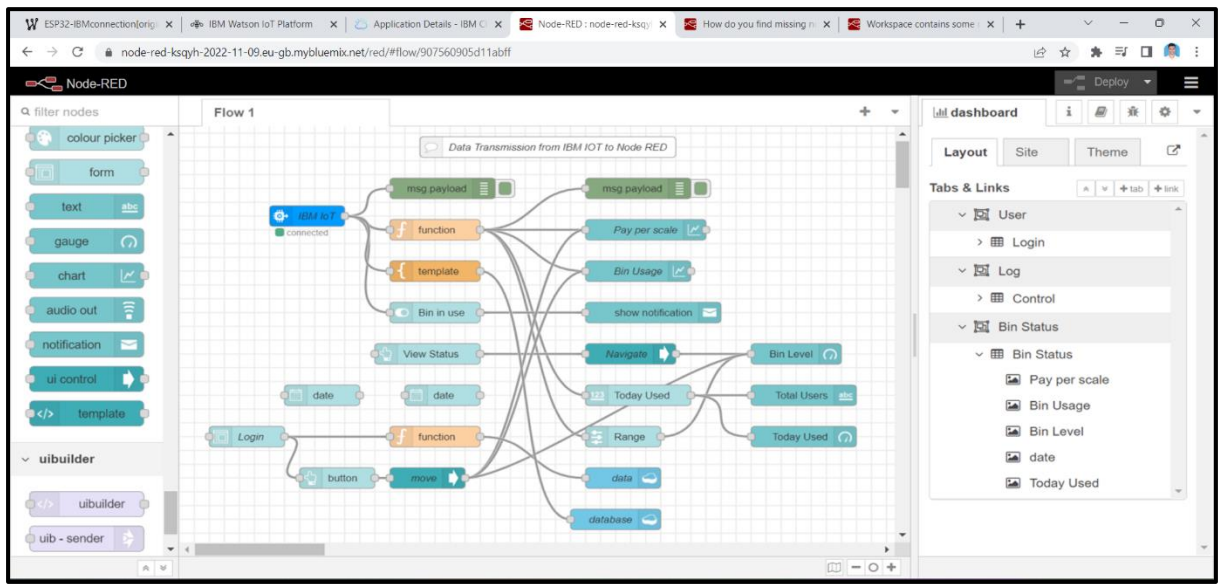
DATE	14 November 2022
Team ID	PNT2022TMID15172
Project Name	Project : Smart Waste Management System For Metropolitan Cities

Work Done in Sprint-4:

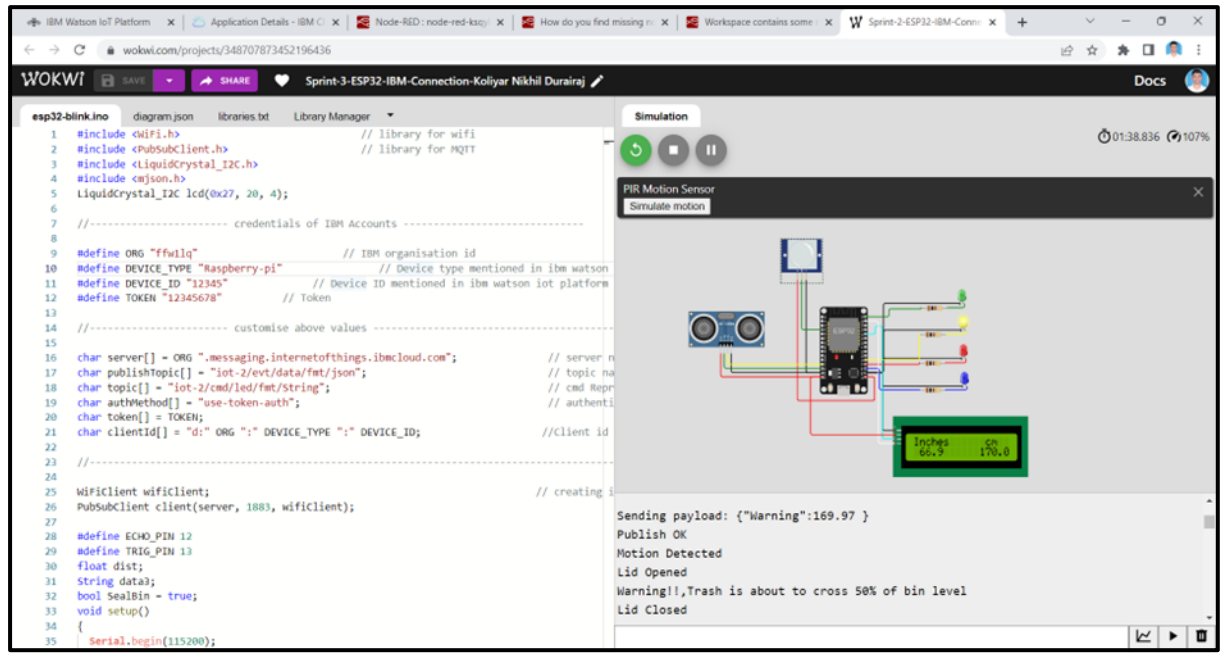
Web UI Design and Deploy:

The Data from IBM Watson IoT Platform is sent to Node-RED and the Web UI is Designed and Deployed for the data Visualization in Web UI Format:

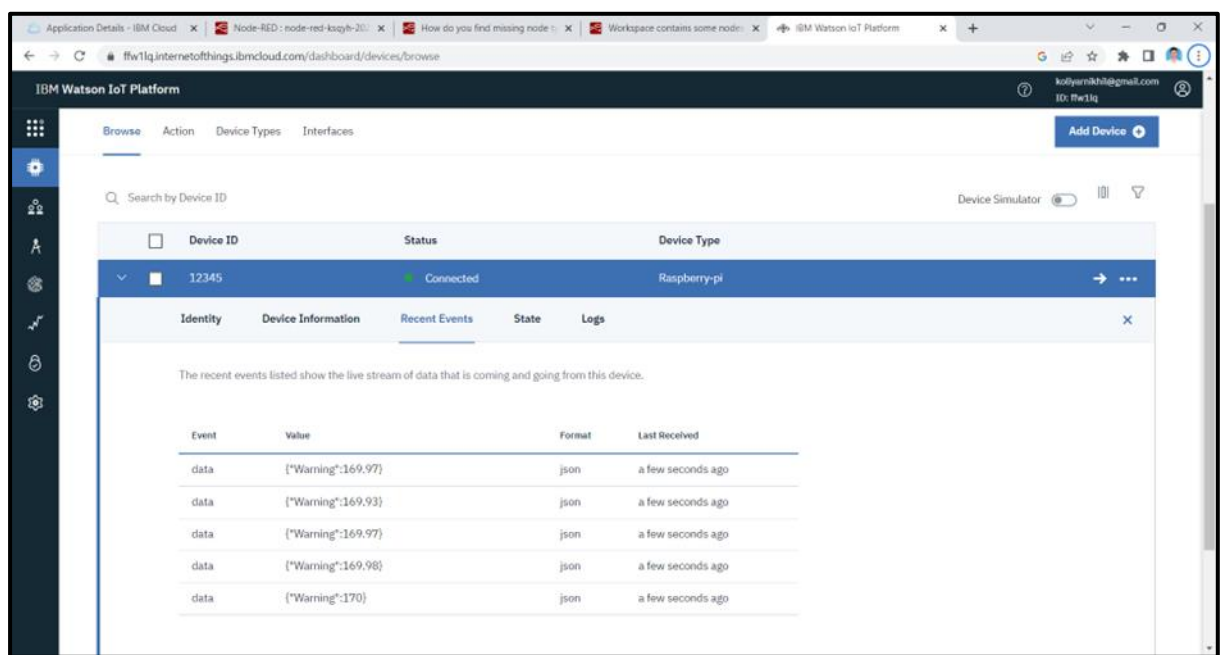
1. Node-RED Connection Setup for Data Transmission from IBM Watson IoT Platform to Node-RED:



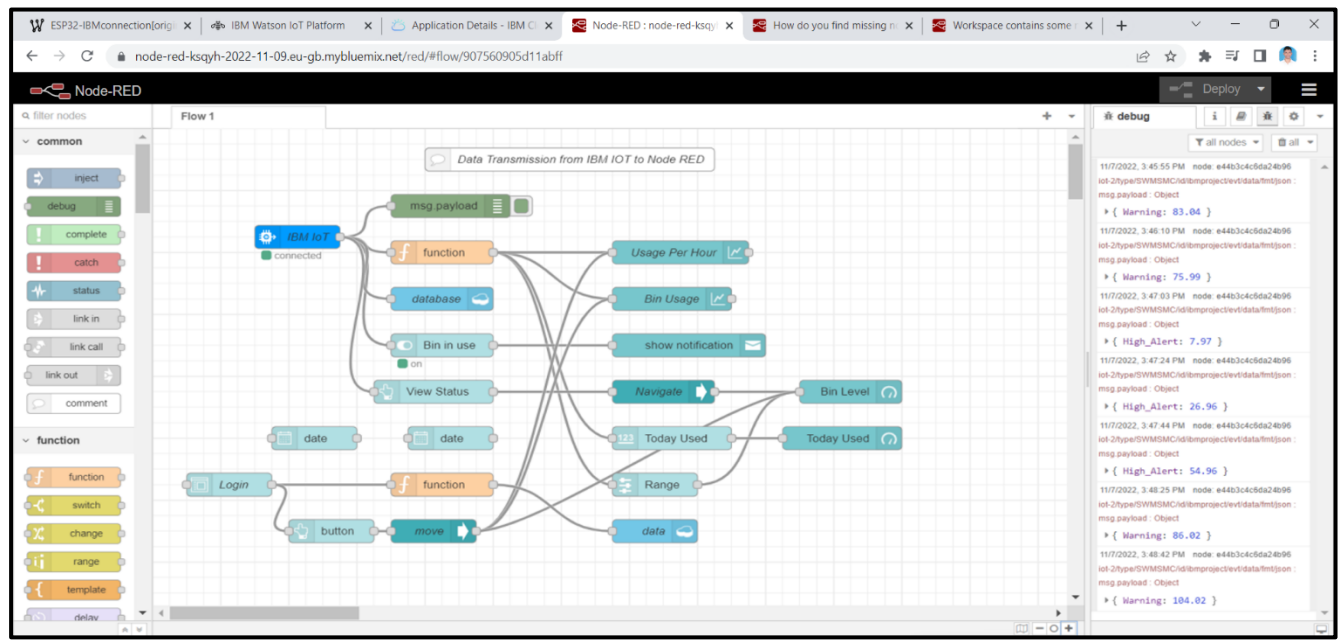
2. Wokwi Simulation Circuit to transmit data from Wokwi account to IBM Watson IoT platform and then to Node RED:



3. Data Transfer to Watson IoT Platform:



4. Data Transfer from IBM Watson IoT Platform to Node-RED:



5. Storing database in IBM Cloudant DB:

The screenshot shows the IBM Cloudant DB dashboard. The "Databases" section is active, displaying a table of databases. The table has columns for Name, Size, # of Docs, Partitioned, and Actions. The databases listed are login_credentials, noderedwjldy20221105, sample, and sensor_data. The "Actions" column contains icons for each database, including a lock icon and a trash icon. The bottom of the dashboard shows "Showing 1-4 of 4 databases. Databases per page 20".

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	
noderedwjldy20221105	37.4 KB	4	No	
sample	59.4 KB	351	No	
sensor_data	15.7 KB	90	No	

Sensor Data:

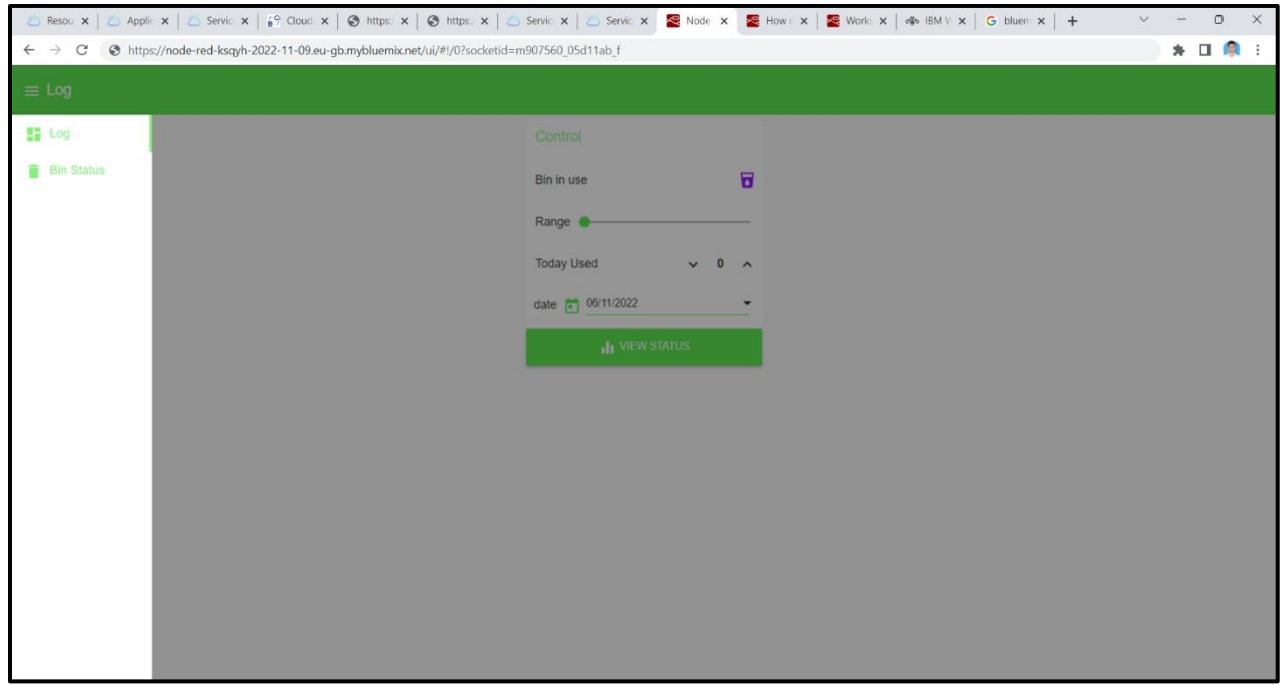
id	key	value
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c6c..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-f96eb0460bc16cfab0..." }
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-7226f08794cd47b7c..." }
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-1bbdd9a985bd56c9..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-7226f08794cd47b7c..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-3ad288ead57f035e..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1bbdd9a985bd56c9..." }
298ed6fhd9b3b815f5ac7c061e...	298ed6fhd9b3b815f5ac7c061e...	{ "rev": "1-4e7240f6e5307a1b9..." }

6. Data is stored in JSON Format:

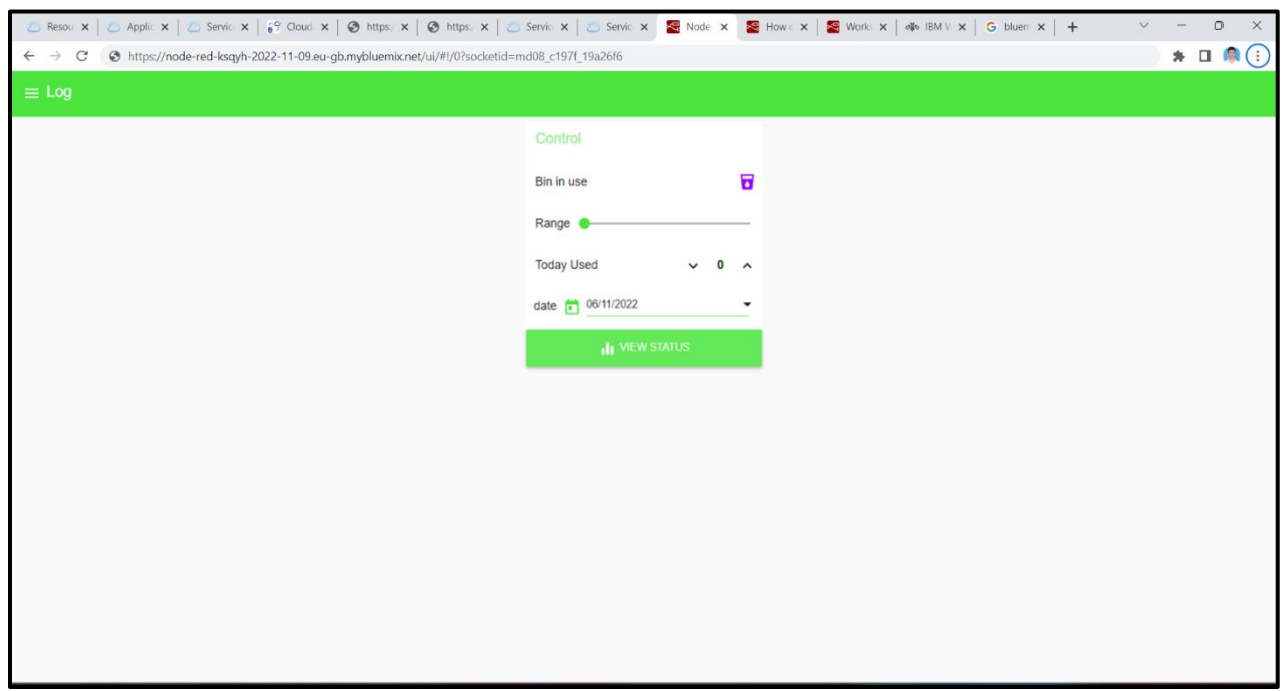
```
{
  "_id": "0198213c192cb2c244cc2433f1802b91",
  "_rev": "1-cde2dd17c519394df74730c495f8b",
  "topic": "iot-2/type/SW@SMC/id/ibmproject/evt/data/fmt/json",
  "payload": {
    "Warning!!": "244.971left"
  },
  "deviceId": "ibmproject",
  "deviceType": "SW@SMC",
  "eventType": "data",
  "format": "json"
}
```

7. Web UI: (User Interface):

Log Menu Interface:



Control Page Interface:



Bin Status Interface:

