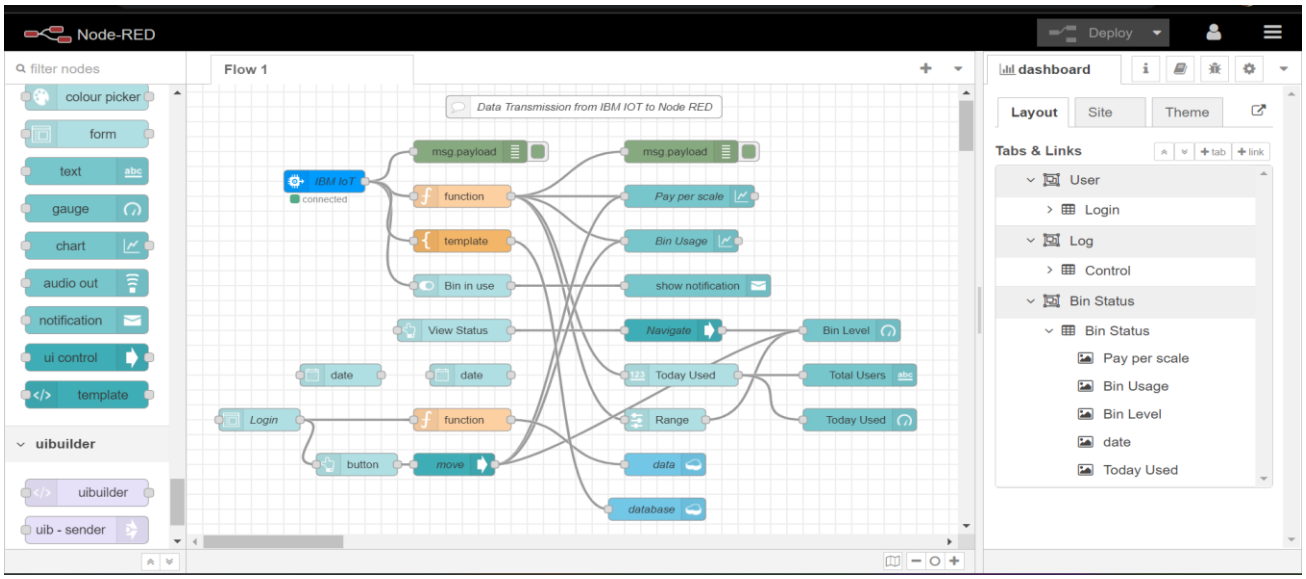
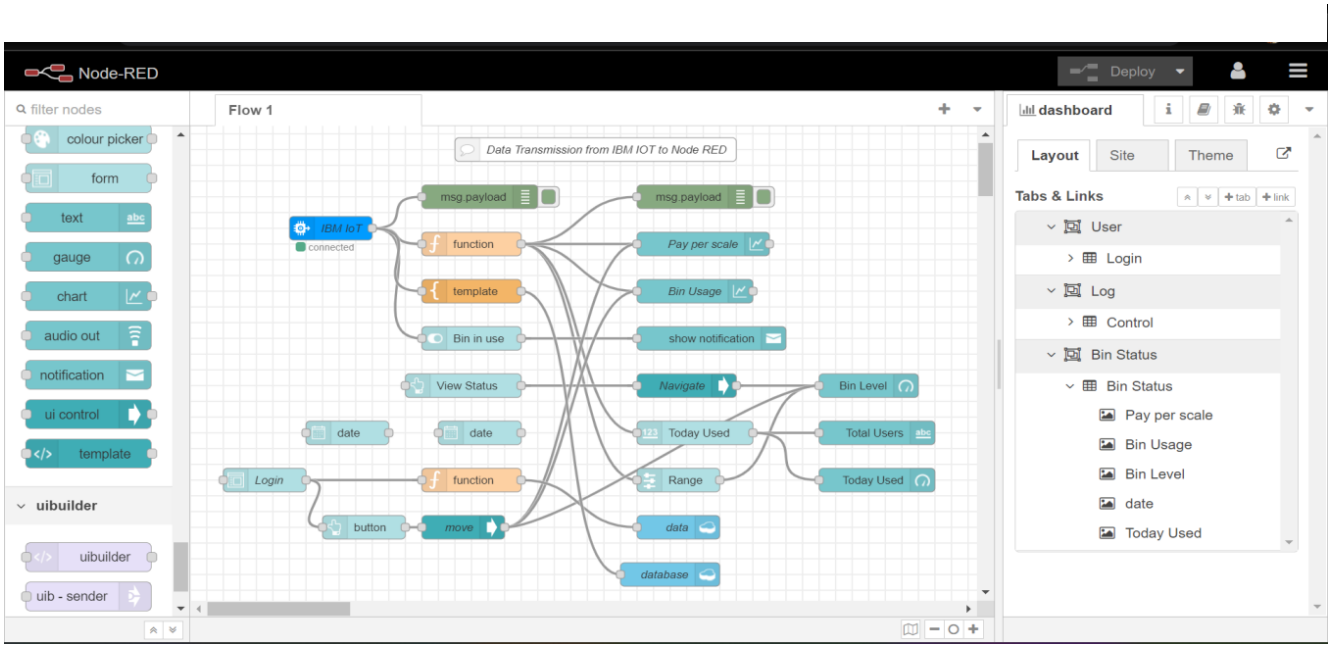
Delivery of Sprint – 3

Node Red Connection to IBM Cloudant

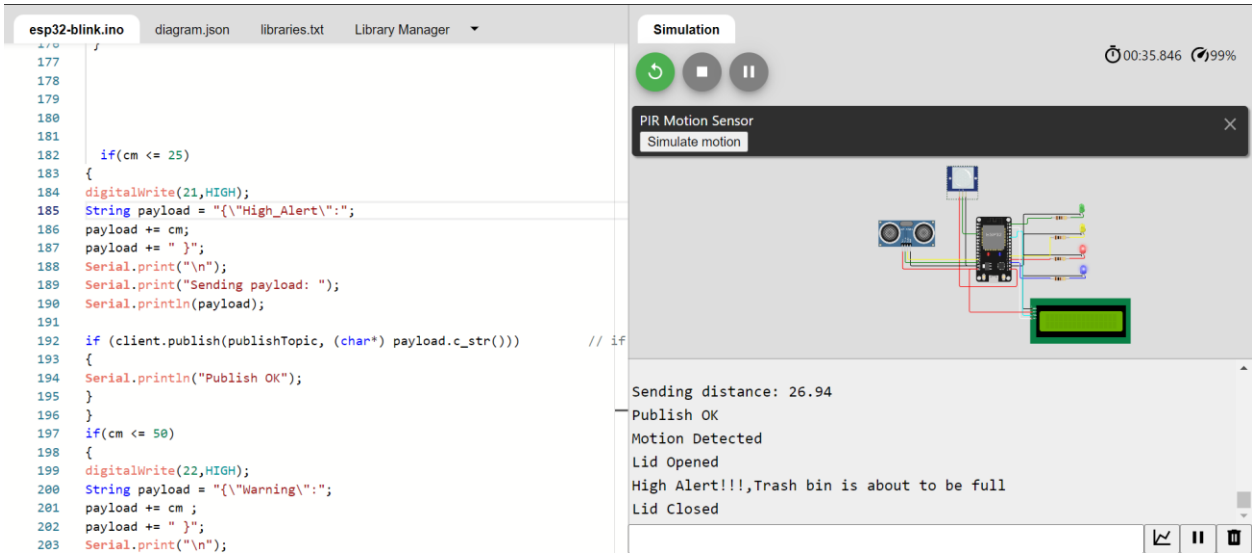
Date	5 November 2022
Team ID	PNT20222TMID01026
Project Name	Smart Waste Management for Metropolitan Cities - IOT

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





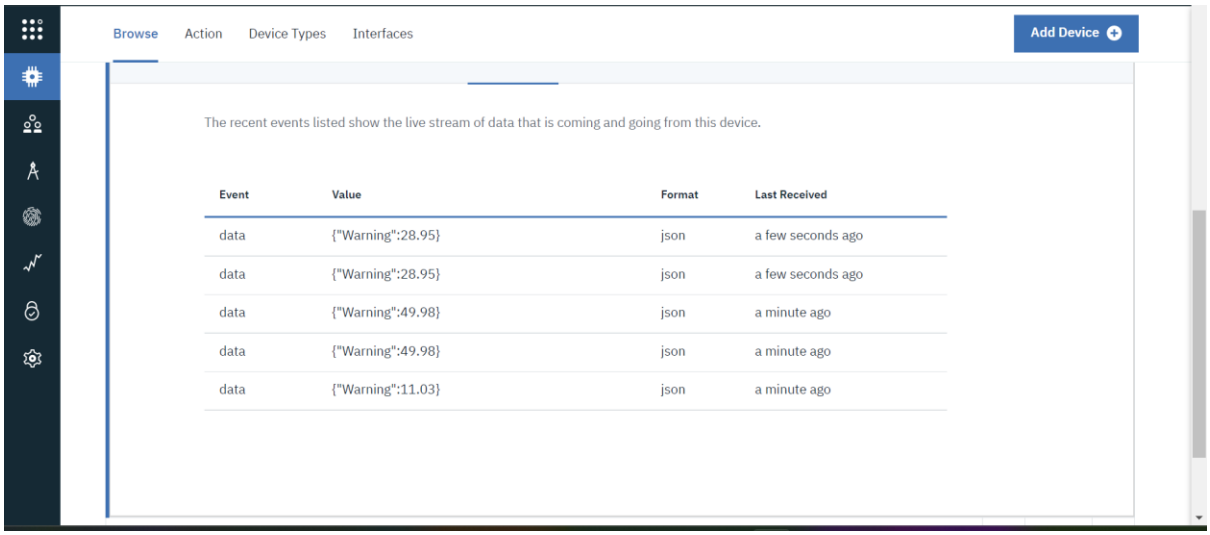
2.Simulate Wokwi connection to transmit data from wokwi account to IBM Watson IOT platform and then to Node Red dashboard.



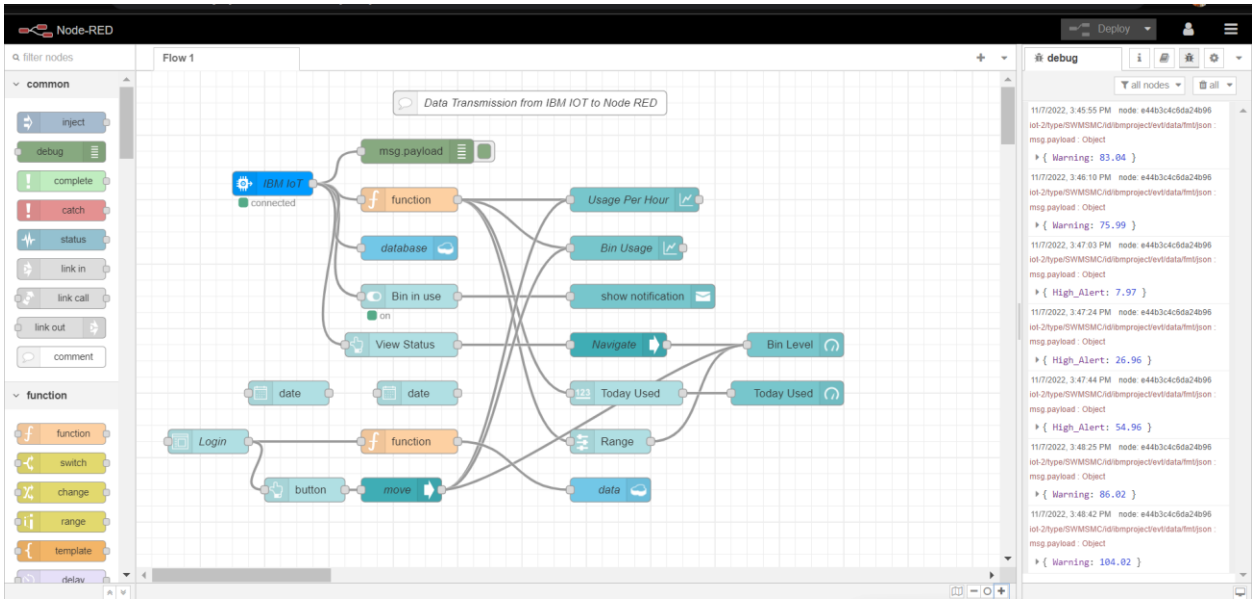

```
  if(cm <= 25)
  {
  digitalWrite(21,HIGH);
  String payload = "{\"High_Alert\":";
  payload += cm;
  payload += " }";
  Serial.print("\n");
  Serial.print("Sending payload: ");
  Serial.println(payload);

  if (client.publish(publishTopic, (char*) payload.c_str()))        // if
  {
  Serial.println("Publish OK");
  }
  }
  if(cm <= 50)
  {
  digitalWrite(22,HIGH);
  String payload = "{\"Warning\":";
  payload += cm ;
  payload += " }";
  Serial.print("\n");
```

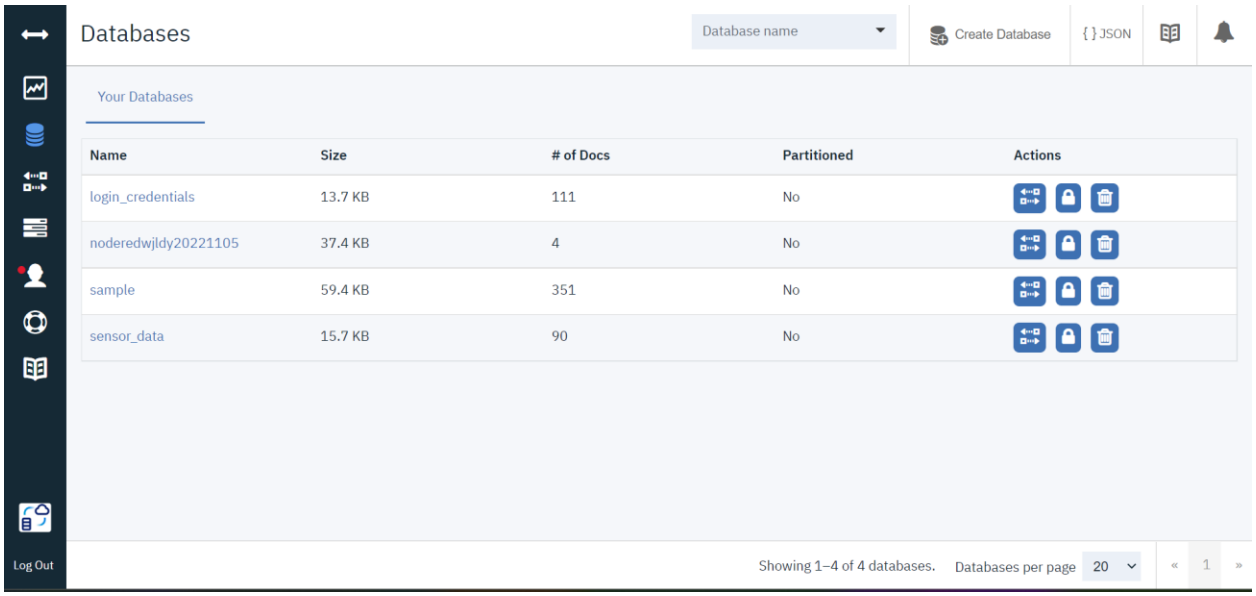
3.Data transfer to Watson IOT platform.

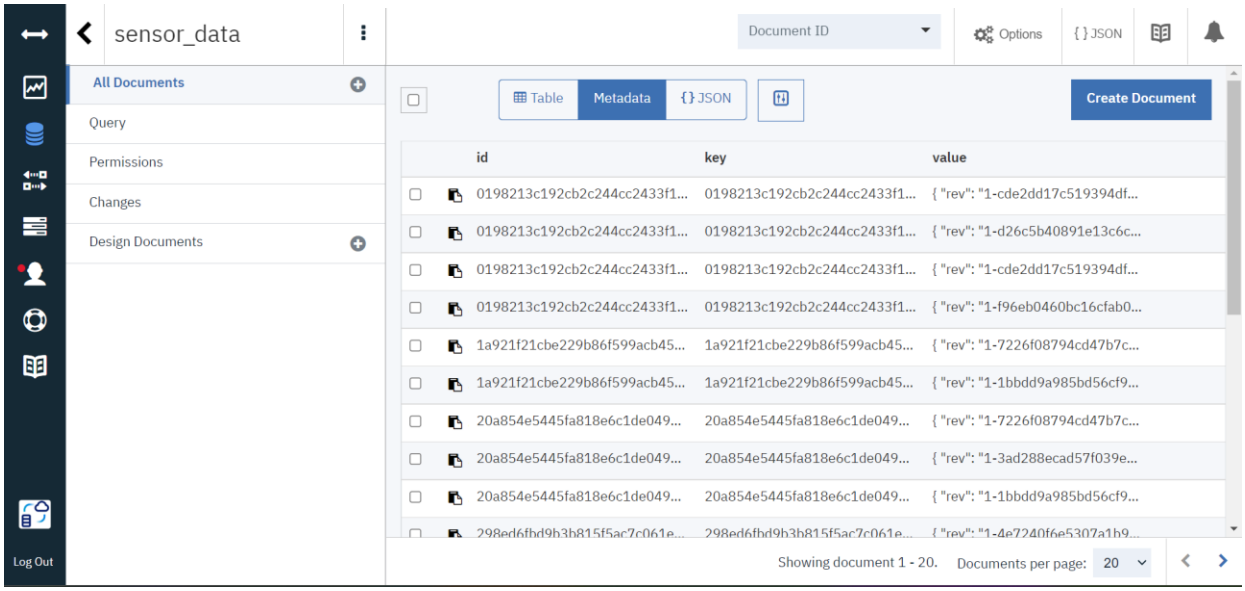
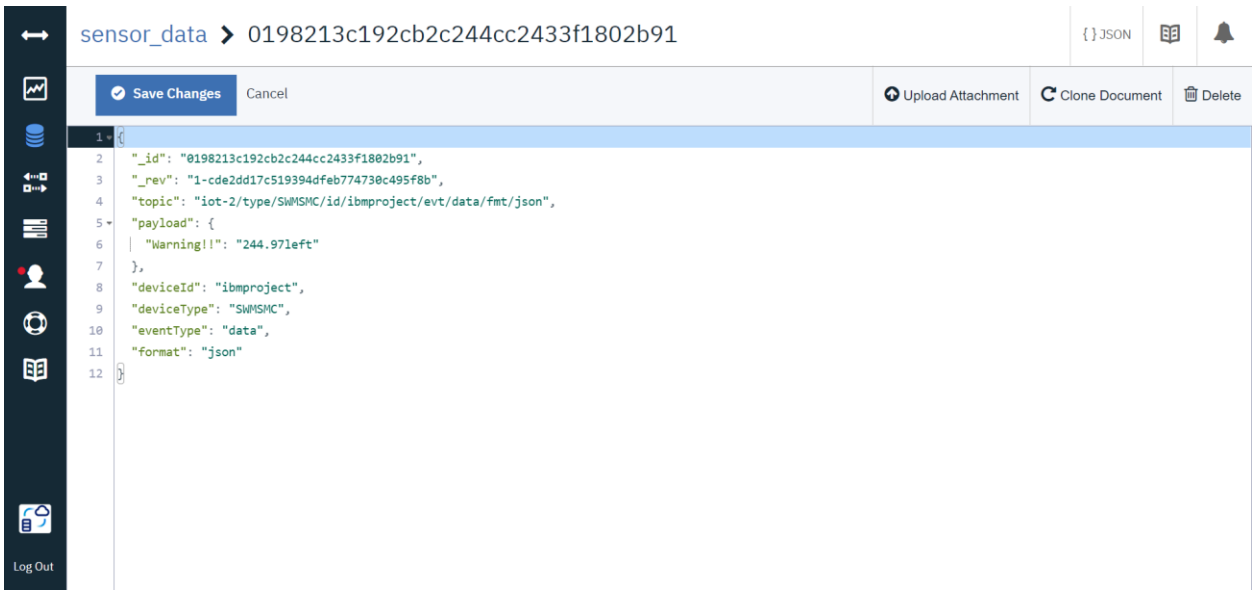


4.Data transfer from IBM Watson IOT platform and wokwi to Node red.



5.Storing database in IBM cloudant DB.





6.Data is stored in JSON format