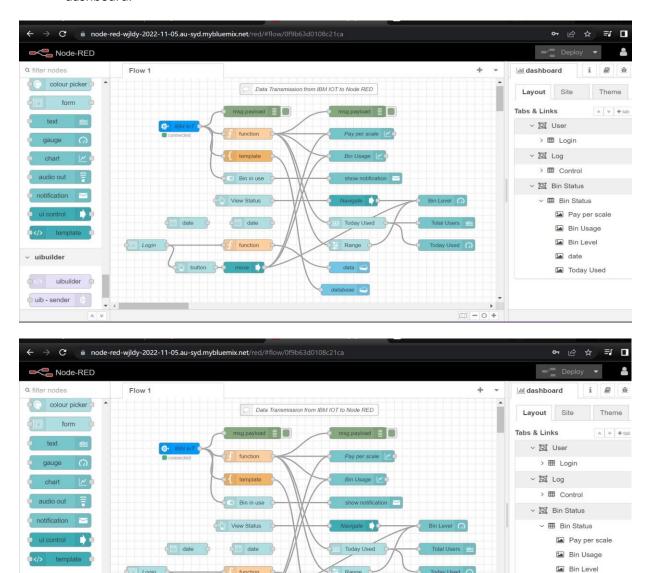
Sprint 3

Node Red Connection to IBM Cloudant

Date	14 November 2022		
Team ID	PNT2022TMID44941		
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.



v uibuilder

uibuilder uib - sender

a date

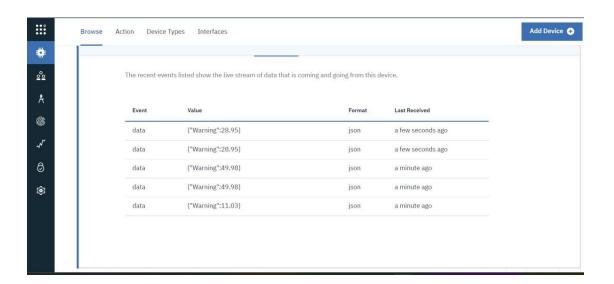
II - 0 +

Today Used

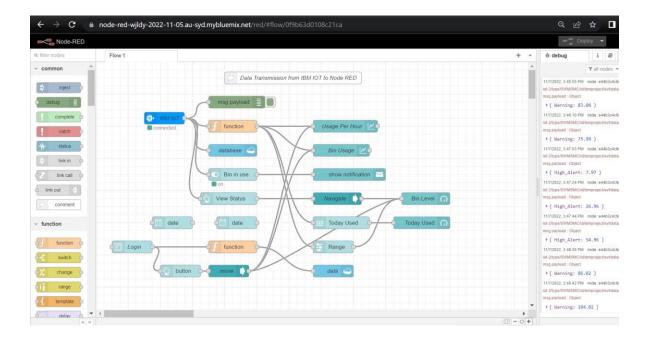
2. Simulate Wokwi connection to transmit data from wokwi account to IBM Watson IOT platform and then to Node Red dashboard.

```
a wokwi.com/projects/347376419979919956
                                                                                                                                                                         WOKWI 🗎 SAVE
                                             ESP32-IBMconnection[original]
                                                                                                                                                                        Doc
                  diagram.json libraries.txt Library Manager ▼
                                                                                              Simulation
 esp32-blink.ino
  177
                                                                                                                                                                 Ō00:35.846
  178
  179
  181
  182
           if(cm <= 25)
  183
                                                                                                                                         digitalWrite(21,HIGH);
String payload = "{\"High_Alert\":";
  184
         payload += cm;
payload += " }";
Serial.print("\n");
  186
  187
  189
         Serial.print("Sending payload: ");
Serial.println(payload);
         if (client.publish(publishTopic, (char*) payload.c_str()))
                                                                                    // if
  192
          Serial.println("Publish OK");
  194
                                                                                          Sending distance: 26.94
  195
                                                                                          Publish OK
         if(cm <= 50)
  197
                                                                                          Motion Detected
  198
                                                                                          Lid Opened
          digitalWrite(22,HIGH);
         String payload = "{\"Warning\":";
payload += cm;
payload += " }";
Serial.print("\n");
                                                                                          High Alert!!!, Trash bin is about to be full
  200
                                                                                          Lid Closed
                                                                                                                                                                       M
```

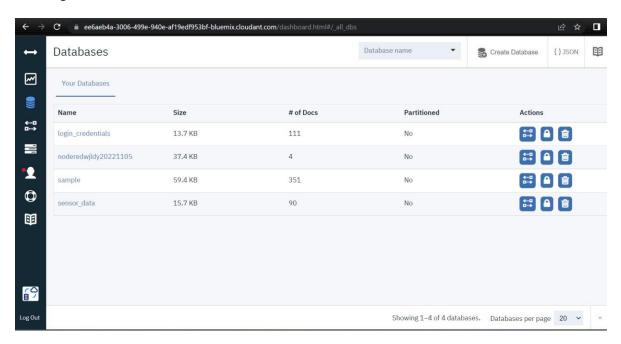
3. Data transfer to Watson IOT platform.

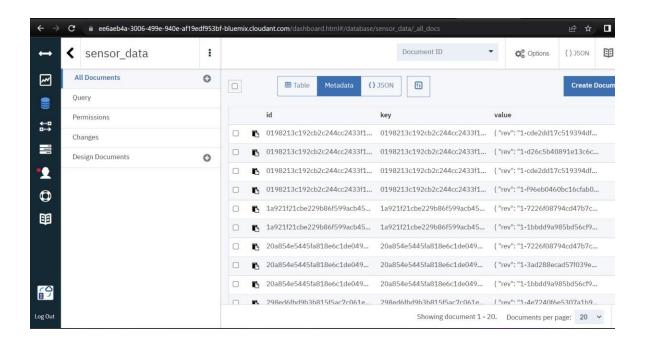


4. Data transfer from IBM Watson IOT platform and wokwi to Node red.



5. Storing database in IBM cloudant DB.





6.Data is stored in JSON format

