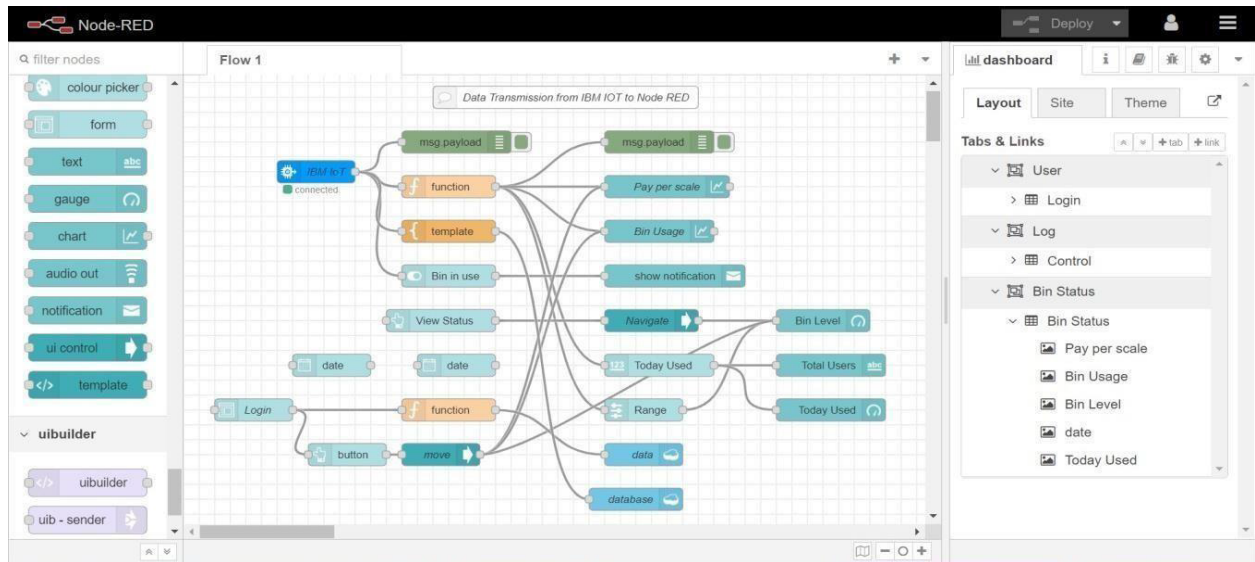


SOLUTION

Date	07 November 2022
Team ID	PNT2022TMID41393
Project Name	Project - Smart Waste Management system for Metropolitan cities

1.NODE RED CONNECTION



2.WOKWI SIMULATION

esp32-blink.ino

diagram.json

libraries.txt

Library Manager

```

177
178
179
180
181
182   if(cm <= 25)
183   {
184     digitalWrite(21,HIGH);
185     String payload = "{\"High_Alert\":\"";
186     payload += cm;
187     payload += " }";
188     Serial.print("\n");
189     Serial.print("Sending payload: ");
190     Serial.println(payload);
191
192     if (client.publish(publishTopic, (char*) payload.c_str())) // if
193     {
194       Serial.println("Publish OK");
195     }
196   }
197   if(cm <= 50)
198   {
199     digitalWrite(22,HIGH);
200     String payload = "{\"Warning\":\"";
201     payload += cm ;
202     payload += " }";
203     Serial.print("\n");

```

Simulation

00:35.846

99%

PIR Motion Sensor

Simulate motion

Sending distance: 26.94

Publish OK

Motion Detected

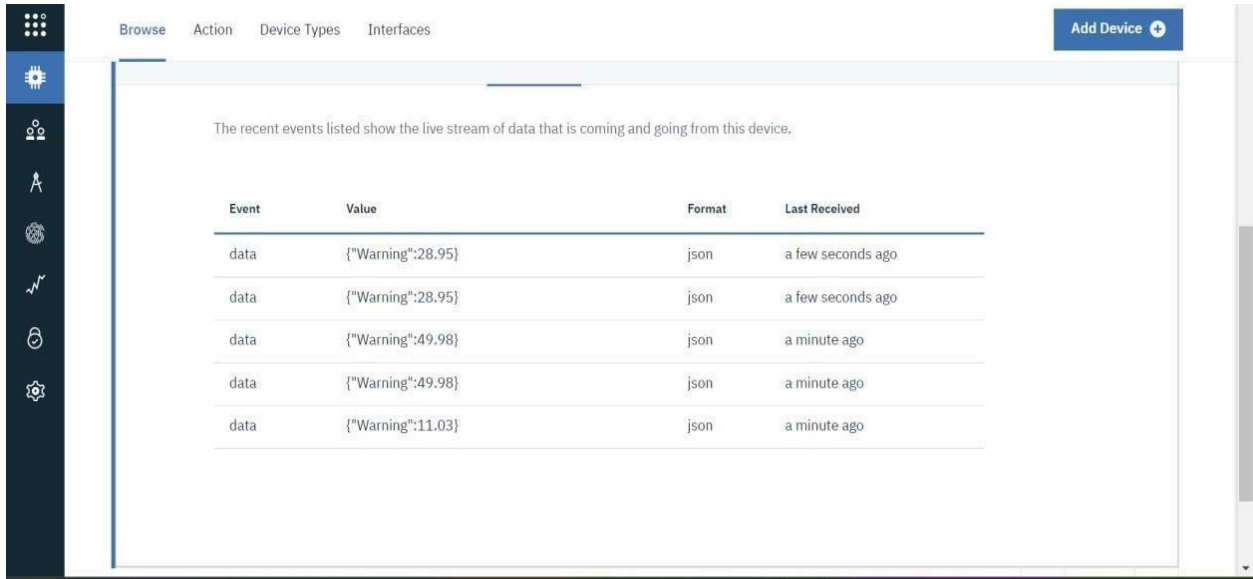
Lid Opened

High Alert!!!,Trash bin is about to be full

Lid Closed

SOLUTION

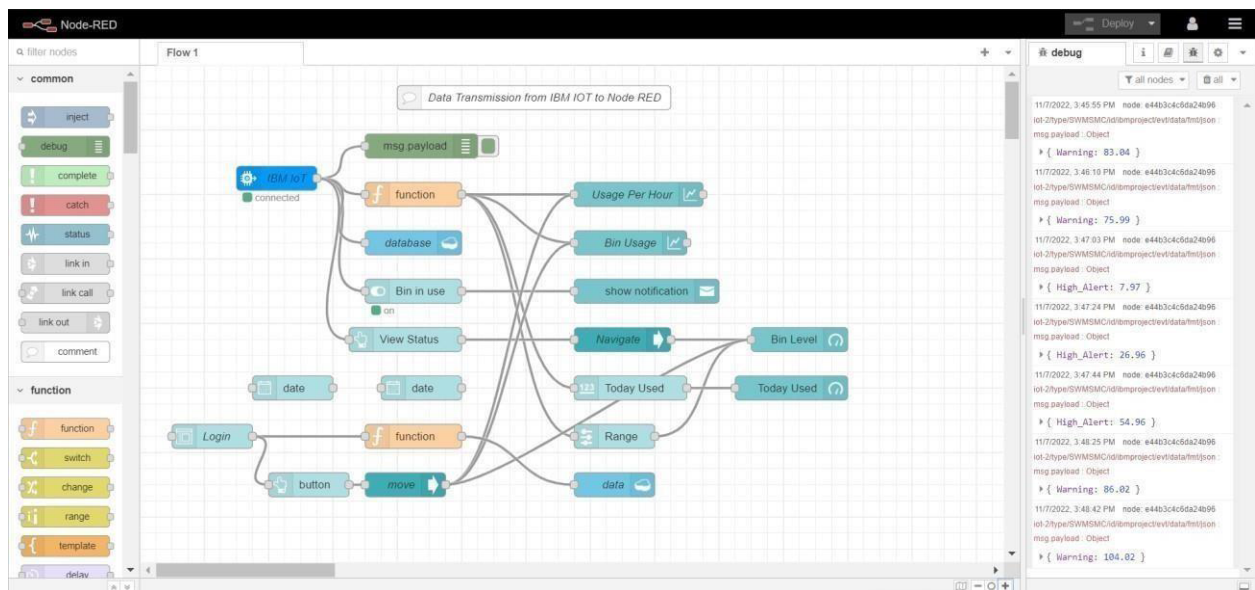
3.DATA TRANSFER TO IBM IOT PLATFORM



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":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 IOT IBM PLATFORM TO NODE RED



5.OUTPUT

SOLUTION

