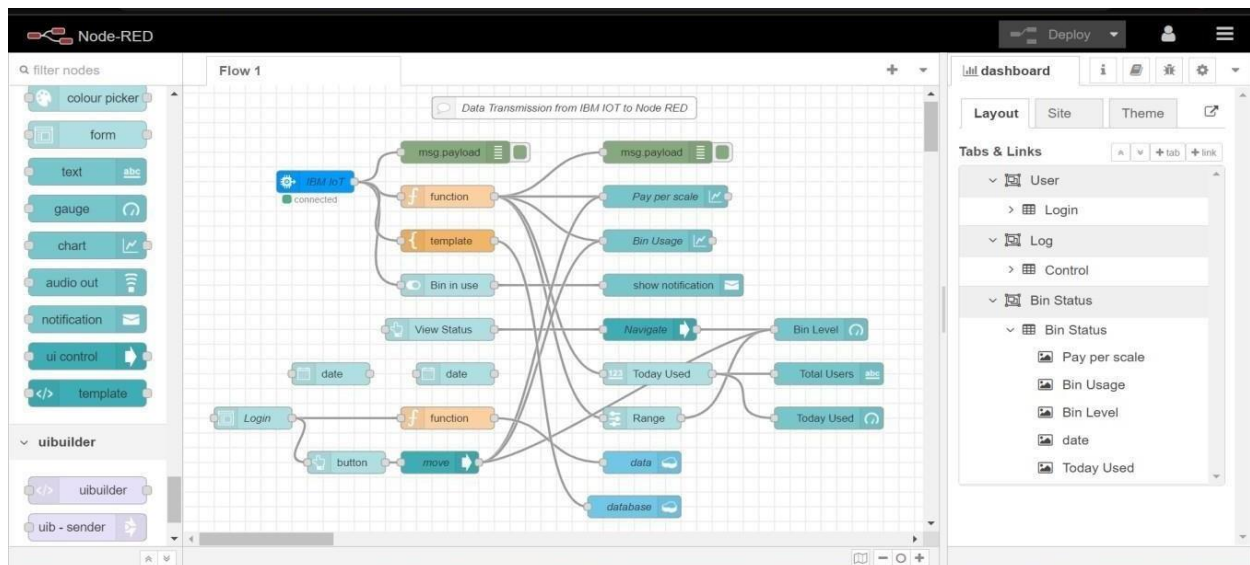
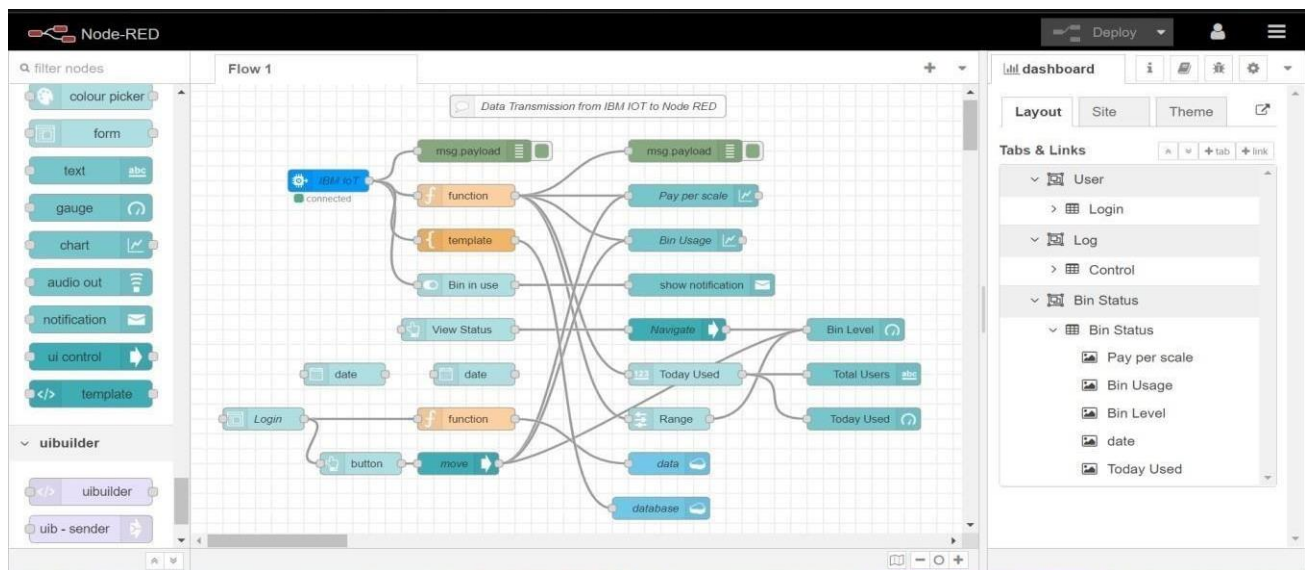


# Delivery of Sprint – 3

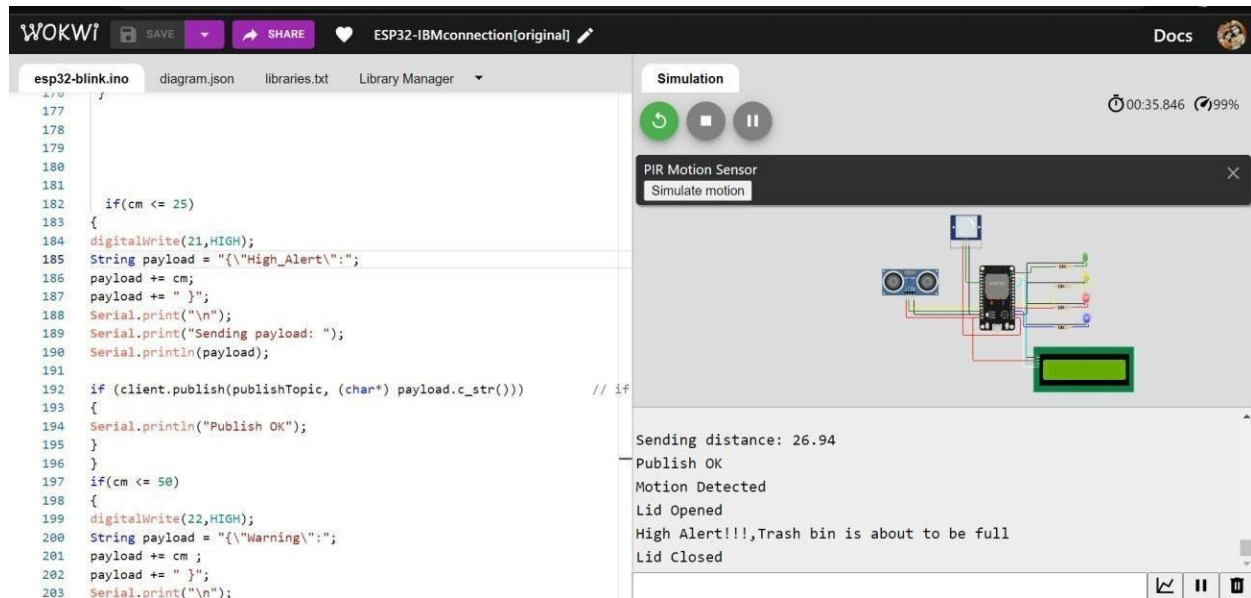
## Node Red Connection to IBM Cloudant

Date	9 November 2022
Team ID	PNT2022TMID46604
Project Name	Smart Waste Management for Metropolitan Cities

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



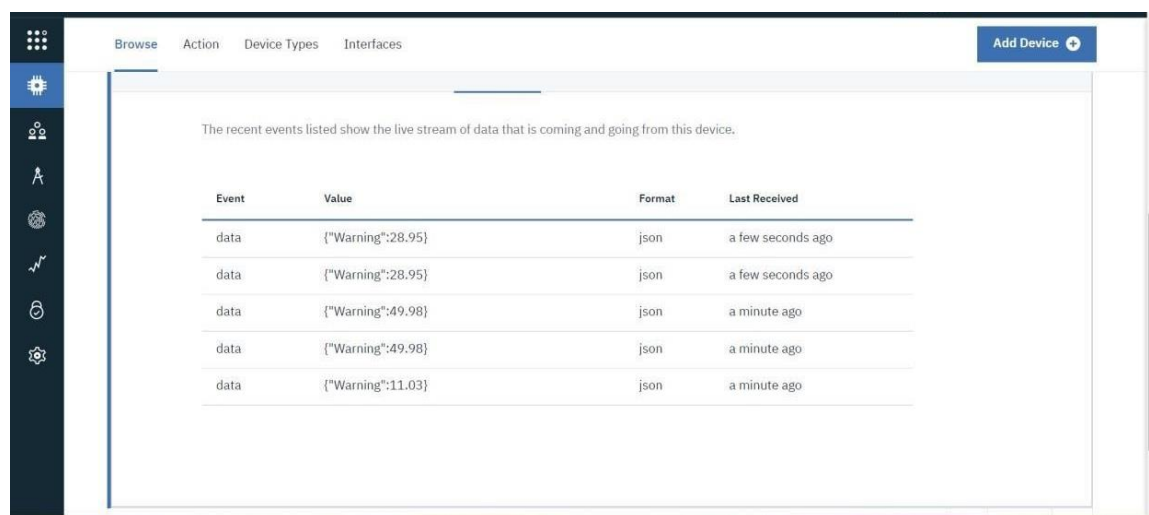
2. Simulate Wokwi connection to transmit data from wokwi account to IBM Watson IOT platform and then to Node Red dashboard.



The screenshot shows the Wokwi IDE interface. On the left, a code editor displays a C++ program for an ESP32. The code includes logic for sending distance data to a topic and triggering a high alert when the distance is less than or equal to 25 cm. On the right, a 'Simulation' window shows a circuit diagram of an ESP32 connected to a PIR motion sensor and a buzzer. Below the diagram, a log displays the following events:

```
Sending distance: 26.94
Publish OK
Motion Detected
Lid Opened
High Alert!!!,Trash bin is about to be full
Lid Closed
```

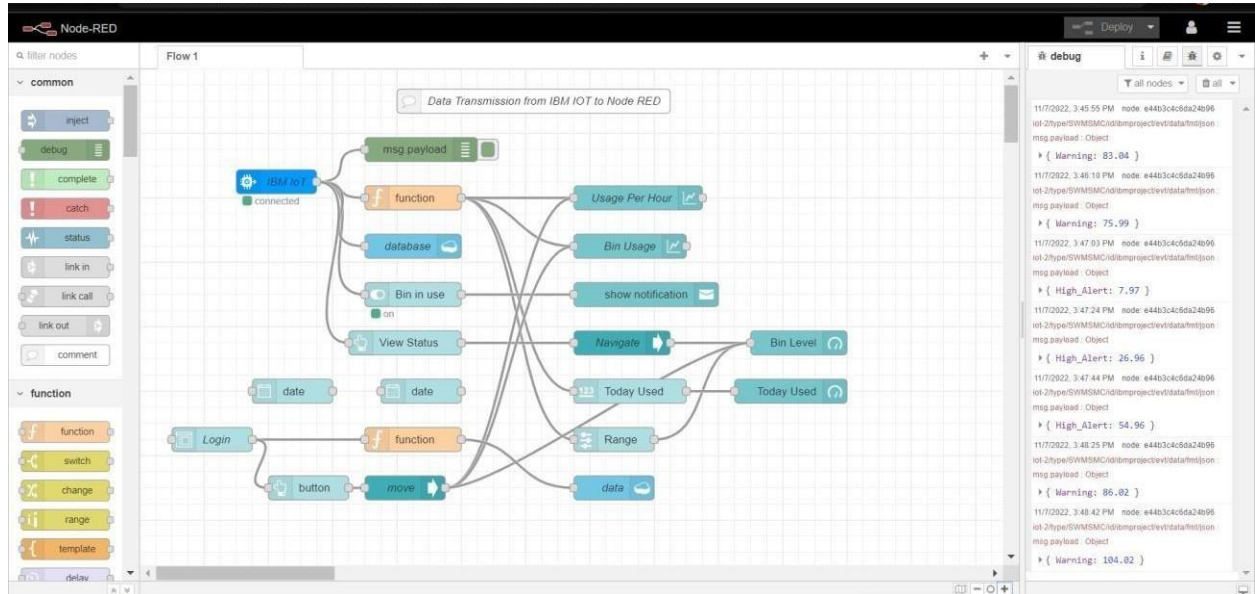
3. Data transfer to Watson IOT platform.



The screenshot shows the IBM Watson IoT Platform dashboard. The 'Recent events' section displays a table of data received from a device. The table has four columns: Event, Value, Format, and Last Received.

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 IBM Watson IOT platform and wokwi to Node red.



#### 5.Storing database in IBM cloudant DB.

Databases					Database name	Create Database	{ } JSON		
Your Databases									
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						

Showing 1-4 of 4 databases. Databases per page 20 1



