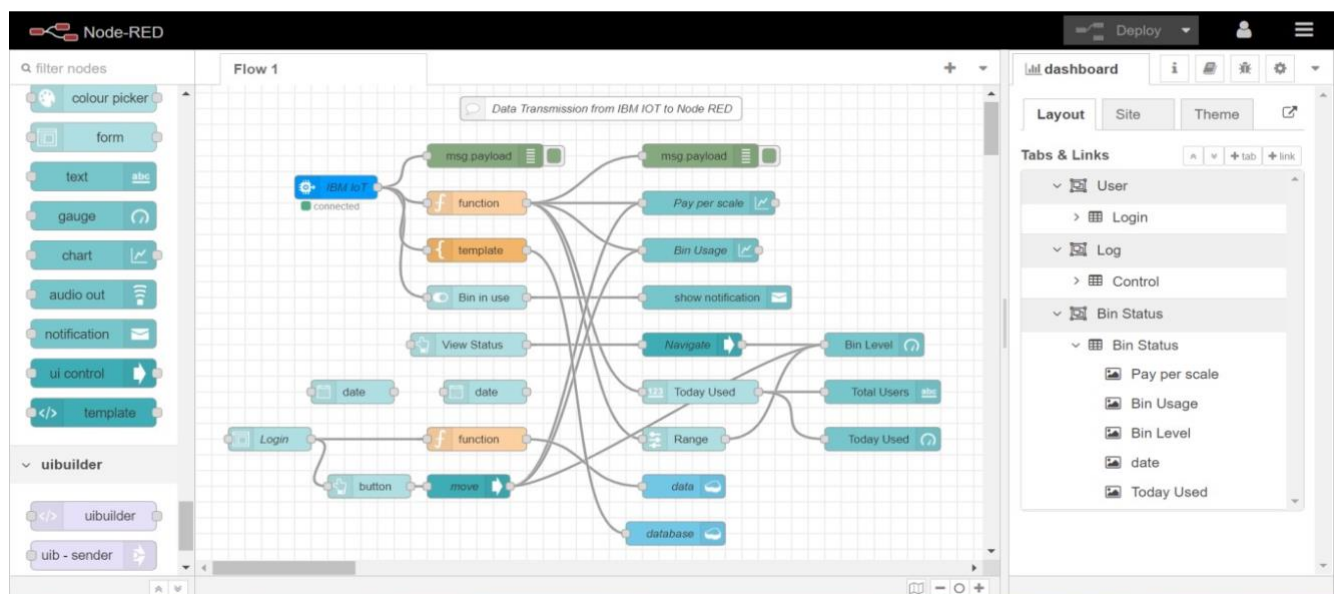
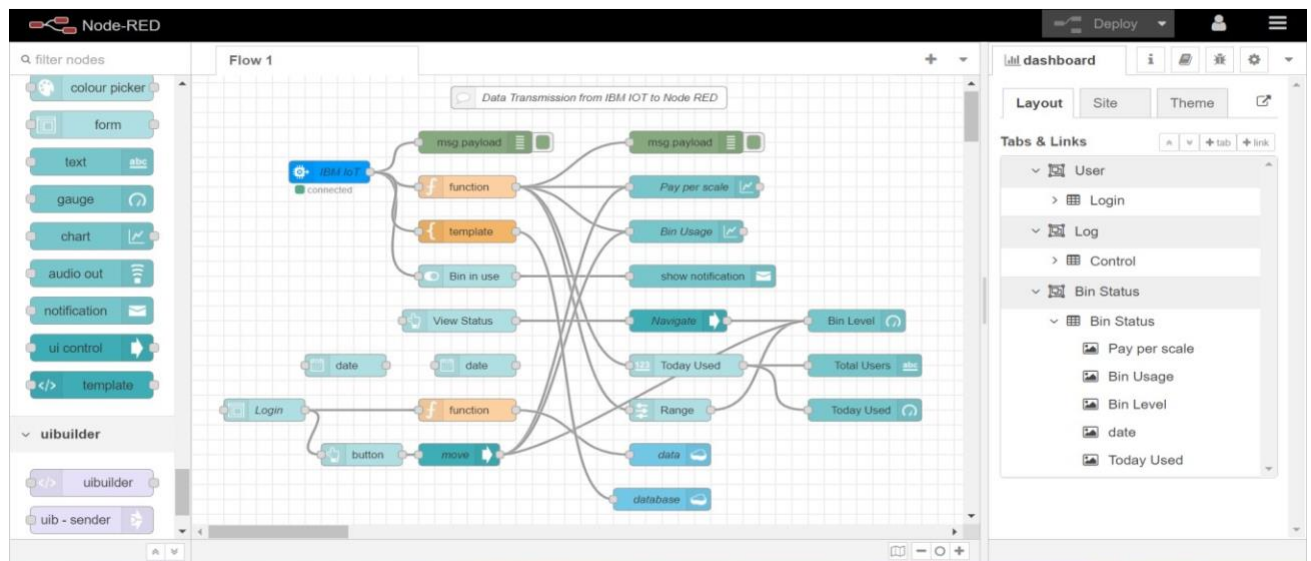


## Node Red Connection to IBM Cloudant

Date	5 November 2022
Team ID	PNT2022TMID05196
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.

The screenshot displays the Wokwi IDE interface. On the left, the 'esp32-blink.ino' file is open, showing a C++ sketch for an ESP32. The sketch includes logic for sending distance data to a topic and triggering a high alert when a distance threshold is reached. On the right, the 'Simulation' window is active, showing a virtual circuit diagram of the ESP32 connected to a PIR Motion Sensor and an LCD display. Below the diagram, a log window shows the following output:

```
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 live stream of data from a device. The data is presented in a table with the following 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.





