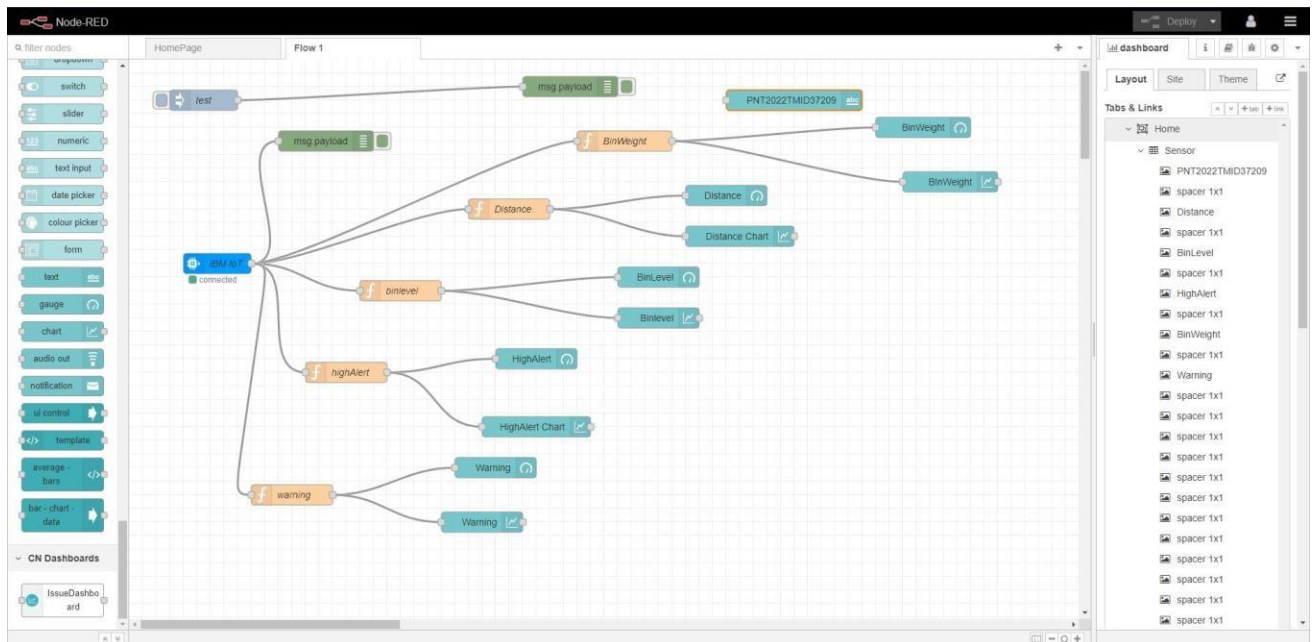


Sprint - 3

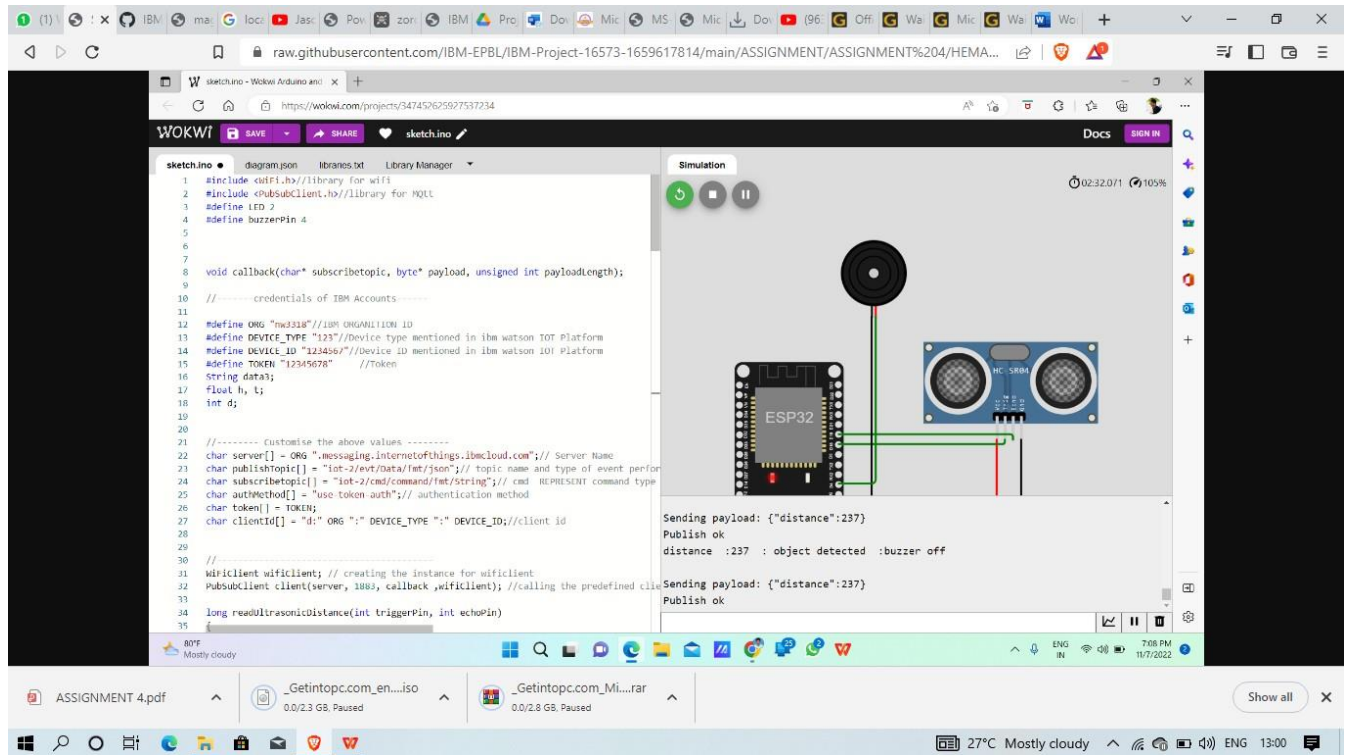
Node-red connection to IBM cloud and database

Date	12 November 2022
Team ID	PNT2022TMID37209
Project Name	Smart waste management system for metropolitan cities.

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.



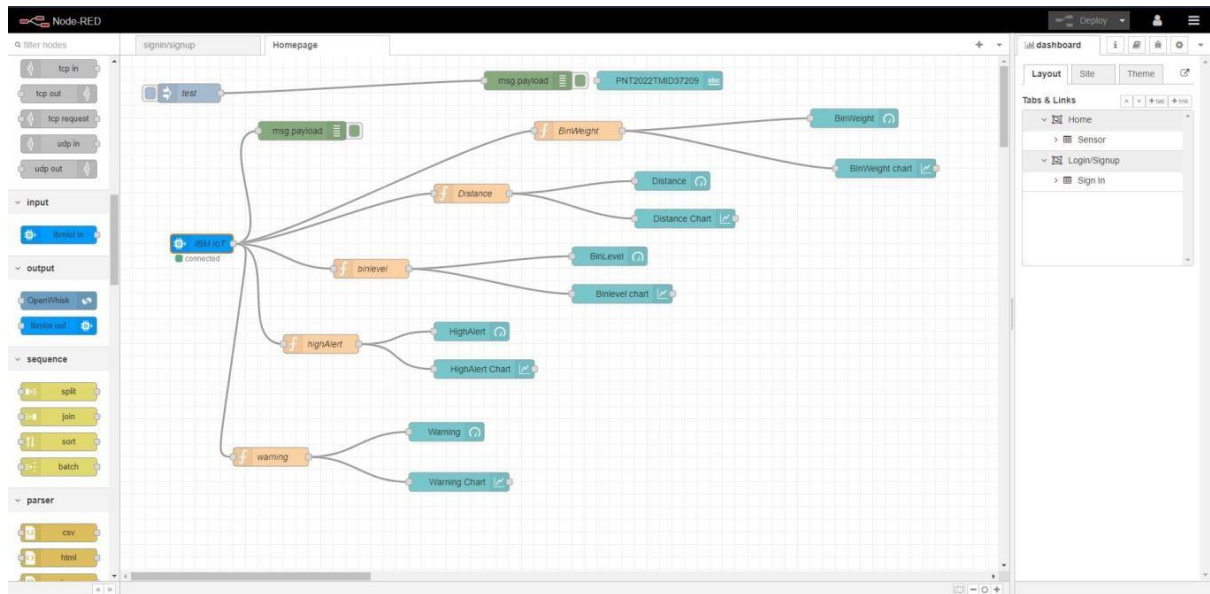
3. Data transfer to Watson IoT platform.

The screenshot shows the IBM Watson IoT Platform dashboard. The device '1234_1' is listed with a status of 'Connected'. The 'Recent Events' tab is selected, showing a list of events. The events are as follows:

Event	Value	Format	Last Received
abcd	{"binlevel":10,"binweight":64}	json	a few seconds ago
abcd	{"binlevel":29,"binweight":6}	json	a minute ago
abcd	{"binlevel":57,"binweight":93}	json	2 minutes ago
abcd	{"binlevel":46,"binweight":33}	json	3 minutes ago
abcd	{"binlevel":89,"binweight":34}	json	4 minutes ago

1 Simulation running

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



5.Storing database in IBM cloudant DB.

IBM Watson IoT Platform

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ID: b21487

Browse Action Device Types Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234_1	Connected	1234	Device	Nov 15, 2022 9:53 AM	

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
abcd	{"binlevel":10,"binweight":64}	json	a few seconds ago
abcd	{"binlevel":29,"binweight":6}	json	a minute ago
abcd	{"binlevel":57,"binweight":93}	json	2 minutes ago
abcd	{"binlevel":46,"binweight":33}	json	3 minutes ago
abcd	{"binlevel":89,"binweight":34}	json	4 minutes ago

1 Simulation running

The screenshot shows the IBM Watson IoT Platform interface. At the top, there's a header with the platform name and user information. Below it, a table lists several devices. The 'smartwaste123' device is selected, and its details are shown in a modal window. The modal has tabs for Identity, Device Information, Recent Events, State, and Logs. The 'Recent Events' tab is active, displaying a table of events.

Event	Value	Format	Last Received
data	["High_Alert":29.95]	json	a few seconds ago
data	["High_Alert":29.95]	json	a few seconds ago
data	["High_Alert":29.95]	json	a few seconds ago
data	["High_Alert":29.99]	json	a few seconds ago
data	["High_Alert":29.95]	json	a few seconds ago

6.Data is stored in JSON format

The screenshot shows the IBM Watson IoT Platform interface for viewing a specific document. The document ID is 'b6e46f15a13172bc98aafc929e8cab9f'. The document is displayed in a JSON format. The JSON data represents a login event with fields for user ID, revision, payload (containing email and password), and socket ID.

```

{
  "_id": "b6e46f15a13172bc98aafc929e8cab9f",
  "_rev": "1-145896e5a4bfddb5370ca0a2fbd7c10d",
  "payload": {
    "E-Mail": "erronblack72001@gmail.com",
    "Password": "Varshanj72001"
  },
  "socketid": "rUD-PivmtoE2nd5HAAAT"
}

```

