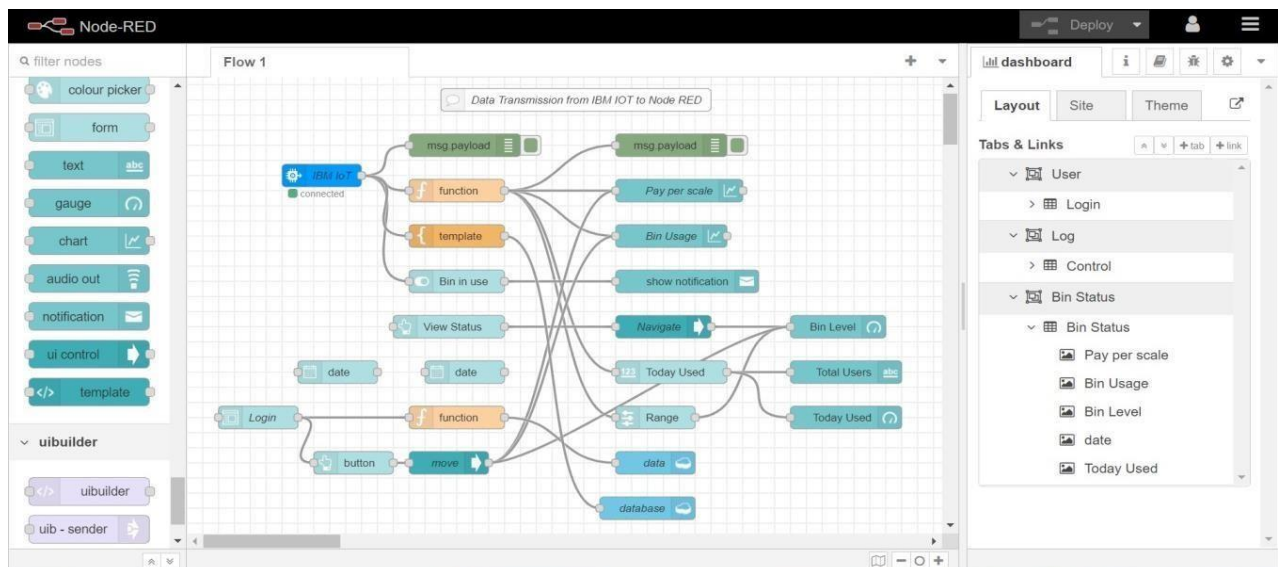
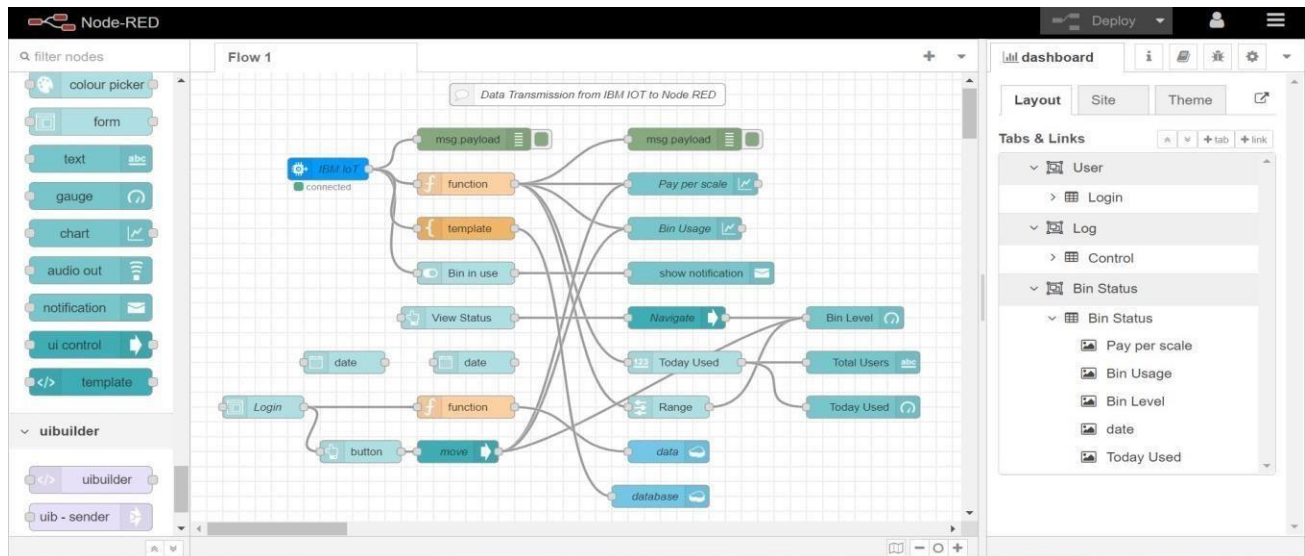


SPRINT 3

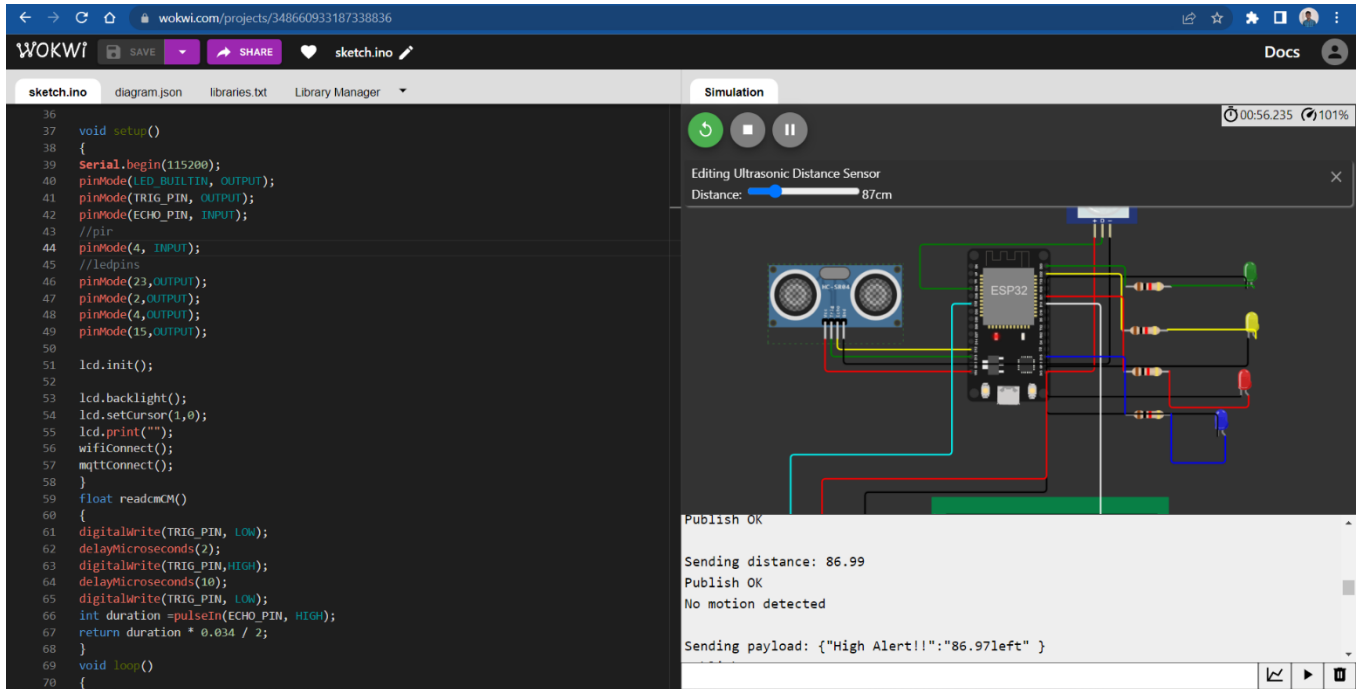
Node Red Connection to IBM DB in Cloudant

Date	12 November 2022
Team ID	PNT2022TMID04391
Project Name	Smart Waste Management System for Metropolitan Cities

- Node-RED Connection Design for project model by flowing the detail from one bin to the user for usage of that each bin by showing alert message and data flow from IBM Watson Platform to Node-RED Setup.**



2.Simulate Wokwi Simulator to transmit data from Wokwi account to IBM IOT platform and then to Node Red Setup Dashboard for Detail of project design from each bin to the sensor for user Reference.



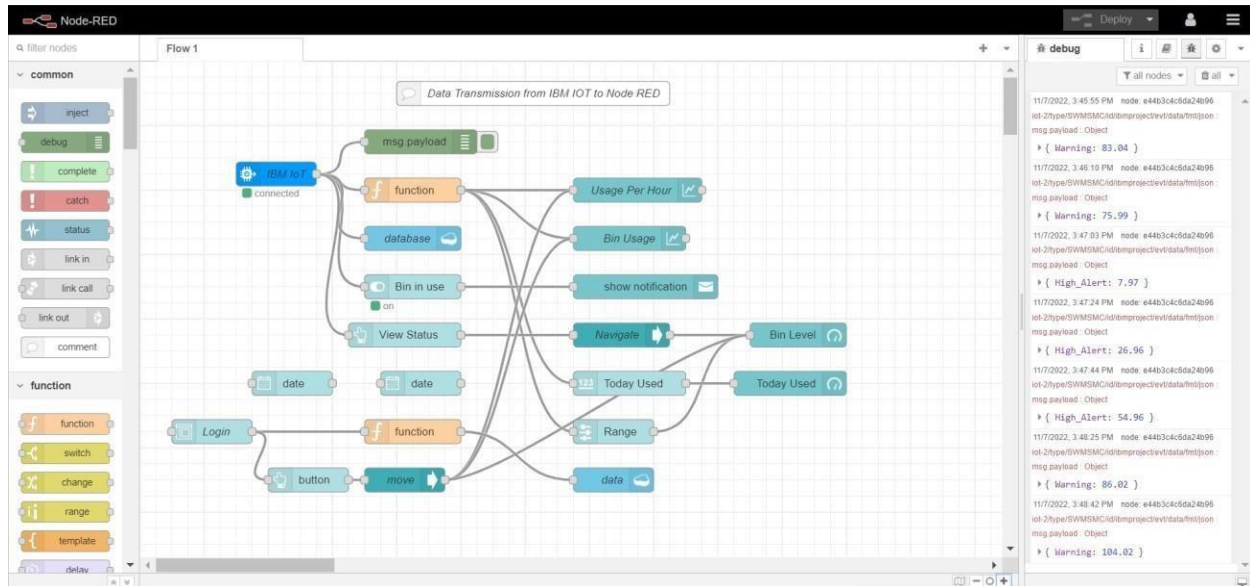
3.Data Values Display to IBM Cloud Account from Wokwi Simulation:

Browse Action Device Types Interfaces Add Device

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 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	
noderedwjdjdy20221105	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 »

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🔒 139fa717-6afa-42fa-a8e7-65e7b992160a-bluemix.cloudant.com/dashboard.html#database/mydb/_all_docs

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mydb

Document ID

Options

{ } JSON

🔔

All Documents

+

Query

Permissions

Changes

Design Documents

+


Table

Metadata

{ } JSON

📄

Create Document

	id	key	value
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Showing document 1 - 1. Documents per page: 20

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🔒 139fa717-6afa-42fa-a8e7-65e7b992160a-bluemix.cloudant.com/dashboard.html#database/mydb/_all_docs

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mydb

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

Table

Metadata

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Create Document

	id	key	value
<input type="checkbox"/>	 a04b7243ca1602116b2270db43f9e908	a04b7243ca1602116b2270db43f9e908	{ "rev": "1-5a9eefa88efefa5162d14cf74fe309..." }
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Showing document 1 - 2. Documents per page: 20

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<div> <div>↔</div> <div>←</div> <div>sensor_data</div> <div>⋮</div> </div> <div> <div>Document ID</div> <div>Options</div> <div>{ } JSON</div> <div></div> <div></div> </div>	<div> <div>All Documents</div> <div>+</div> </div> <div> <div>Query</div> <div>Permissions</div> <div>Changes</div> <div>Design Documents</div> <div>+</div> </div>	<div> <div>Table</div> <div>Metadata</div> <div>{ } JSON</div> <div></div> </div> <div>Create Document</div>																																	
	<table> <tr> <th>id</th><th>key</th><th>value</th></tr> <tr> <td><input type="checkbox"/> 0198213c192cb2c244cc2433f1...</td><td>0198213c192cb2c244cc2433f1...</td><td>{ "rev": "1-cde2dd17c519394df...</td></tr> <tr> <td><input type="checkbox"/> 0198213c192cb2c244cc2433f1...</td><td>0198213c192cb2c244cc2433f1...</td><td>{ "rev": "1-d26c5b40891e13c6c...</td></tr> <tr> <td><input type="checkbox"/> 0198213c192cb2c244cc2433f1...</td><td>0198213c192cb2c244cc2433f1...</td><td>{ "rev": "1-cde2dd17c519394df...</td></tr> <tr> <td><input type="checkbox"/> 0198213c192cb2c244cc2433f1...</td><td>0198213c192cb2c244cc2433f1...</td><td>{ "rev": "1-f96eb0460bc16cfab0...</td></tr> <tr> <td><input type="checkbox"/> 1a921f21cbe229b86f599acb45...</td><td>1a921f21cbe229b86f599acb45...</td><td>{ "rev": "1-7226f08794cd47b7c...</td></tr> <tr> <td><input type="checkbox"/> 1a921f21cbe229b86f599acb45...</td><td>1a921f21cbe229b86f599acb45...</td><td>{ "rev": "1-1bdd9a985bd56cf9...</td></tr> <tr> <td><input type="checkbox"/> 20a854e5445fa818e6c1de049...</td><td>20a854e5445fa818e6c1de049...</td><td>{ "rev": "1-7226f08794cd47b7c...</td></tr> <tr> <td><input type="checkbox"/> 20a854e5445fa818e6c1de049...</td><td>20a854e5445fa818e6c1de049...</td><td>{ "rev": "1-3ad288ecad57f039e...</td></tr> <tr> <td><input type="checkbox"/> 20a854e5445fa818e6c1de049...</td><td>20a854e5445fa818e6c1de049...</td><td>{ "rev": "1-1bdd9a985bd56cf9...</td></tr> <tr> <td><input type="checkbox"/> 298ed6fbd9h3b815f5ac7c061e...</td><td>298ed6fbd9h3b815f5ac7c061e...</td><td>{ "rev": "1-4e7240f6e5307a1b9...</td></tr> </table>	id	key	value	<input type="checkbox"/> 0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df...	<input type="checkbox"/> 0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c6c...	<input type="checkbox"/> 0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df...	<input type="checkbox"/> 0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-f96eb0460bc16cfab0...	<input type="checkbox"/> 1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-7226f08794cd47b7c...	<input type="checkbox"/> 1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-1bdd9a985bd56cf9...	<input type="checkbox"/> 20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-7226f08794cd47b7c...	<input type="checkbox"/> 20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-3ad288ecad57f039e...	<input type="checkbox"/> 20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1bdd9a985bd56cf9...	<input type="checkbox"/> 298ed6fbd9h3b815f5ac7c061e...	298ed6fbd9h3b815f5ac7c061e...	{ "rev": "1-4e7240f6e5307a1b9...	<div>Showing document 1 - 20. Documents per page: 20</div>
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6.Data In JSONformat and Credentials For Wokwi Connection using Node Red Setup:

<div> <div>↔</div> <div>sensor_data</div> <div>></div> <div>0198213c192cb2c244cc2433f1802b91</div> <div>{ } JSON</div> <div></div> <div></div> </div>	<div> <div>Save Changes</div> <div>Cancel</div> <div>Upload Attachment</div> <div>Clone Document</div> <div>Delete</div> </div>
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PYTHON CODE WITH SENSOR CONNECTION IN WOKWI LINK:

<https://wokwi.com/projects/348671665493770836>