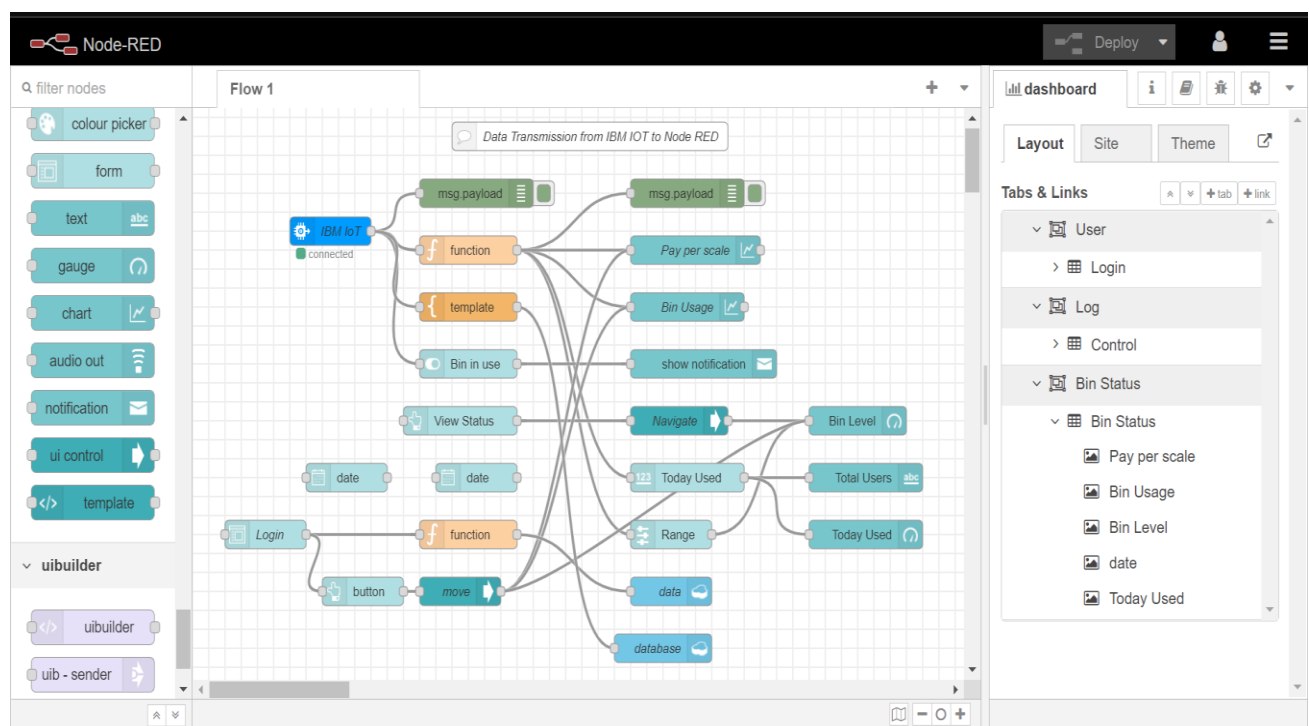
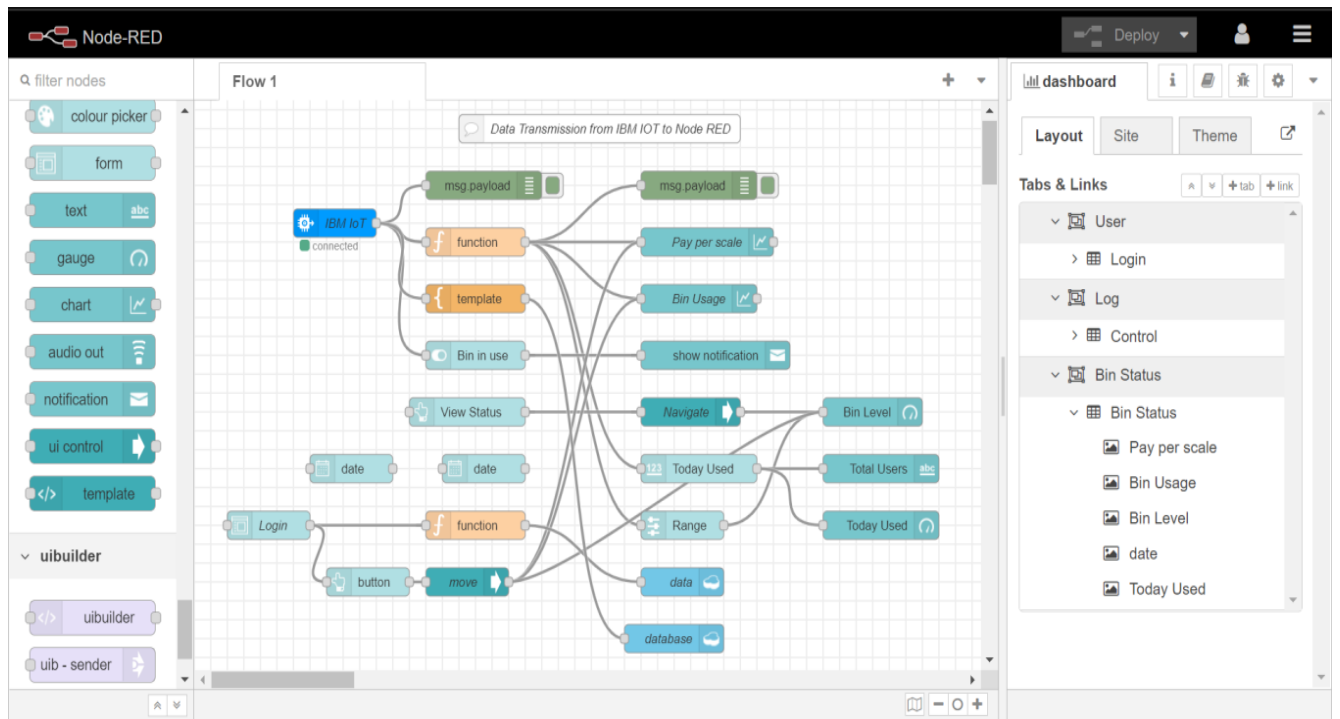


Web UI Design and Deploy

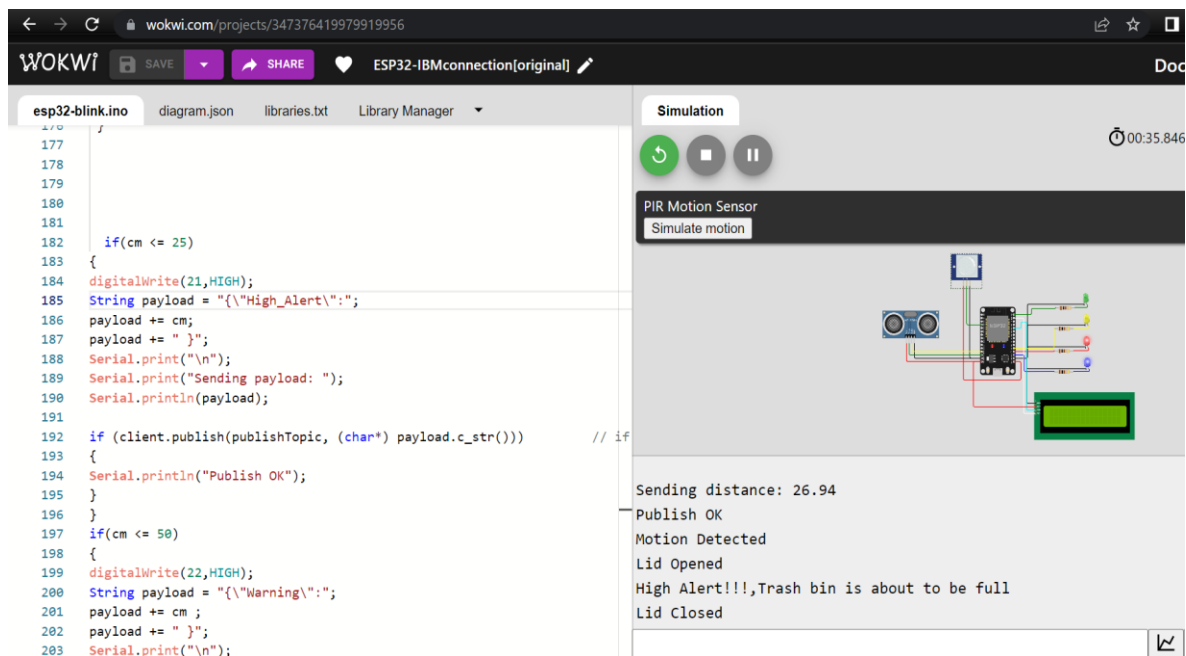
Date	5 November 2022
Team ID	PNT2022TMID43771
Project Name	Smart Waste Management for Metropolitan Cities - IOT

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

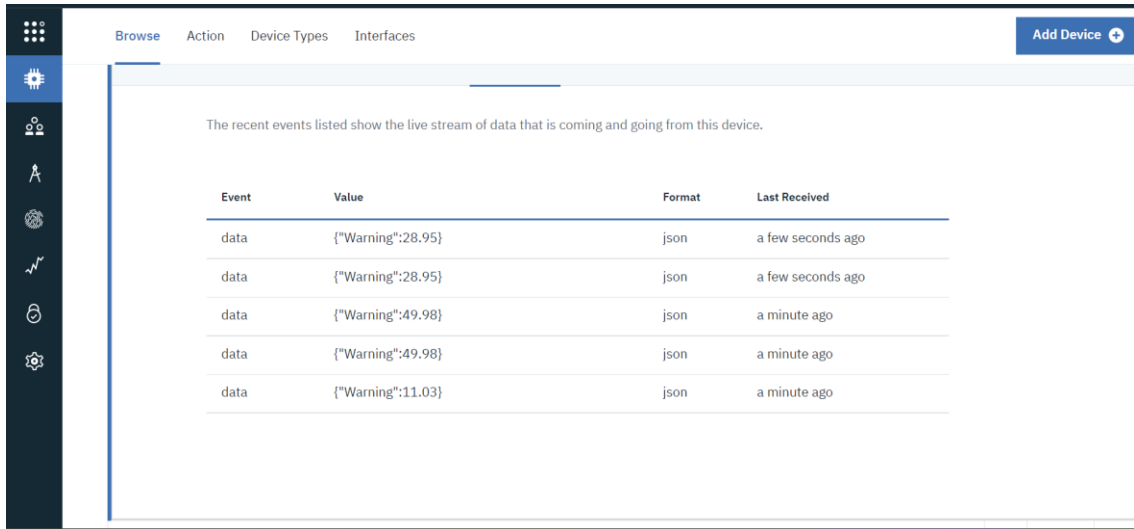




2. Simulate Wokwi connection to transmit data from wokwi account to IBM Watson IOT platform and then to Node Red dashboard.



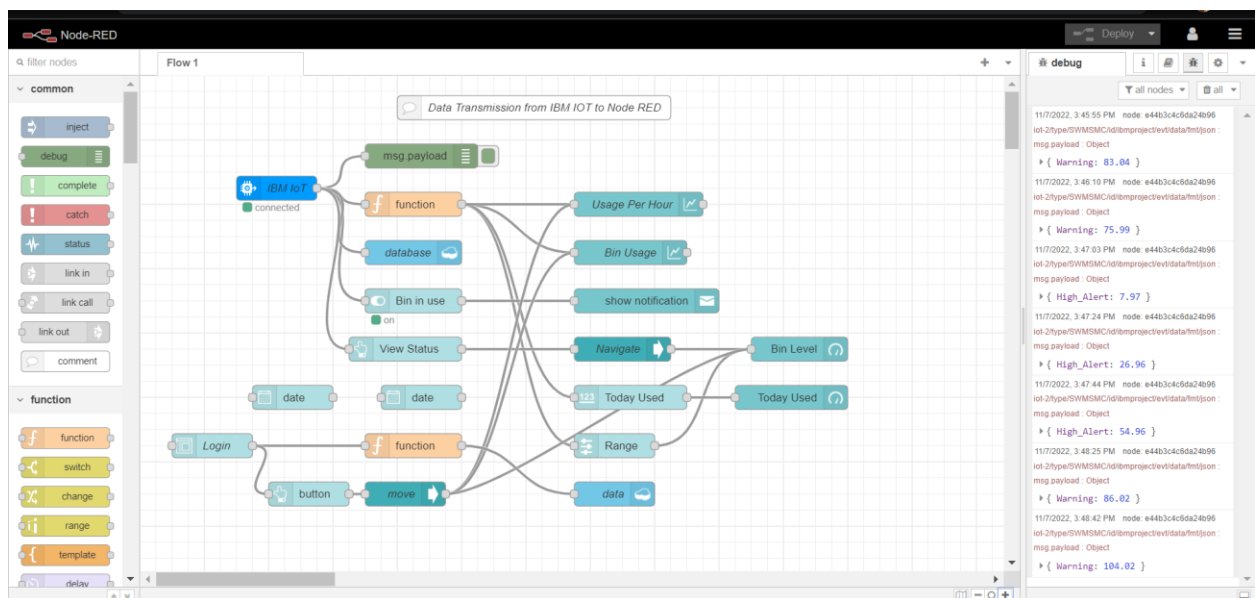
3. Data transfer to Watson IOT platform.



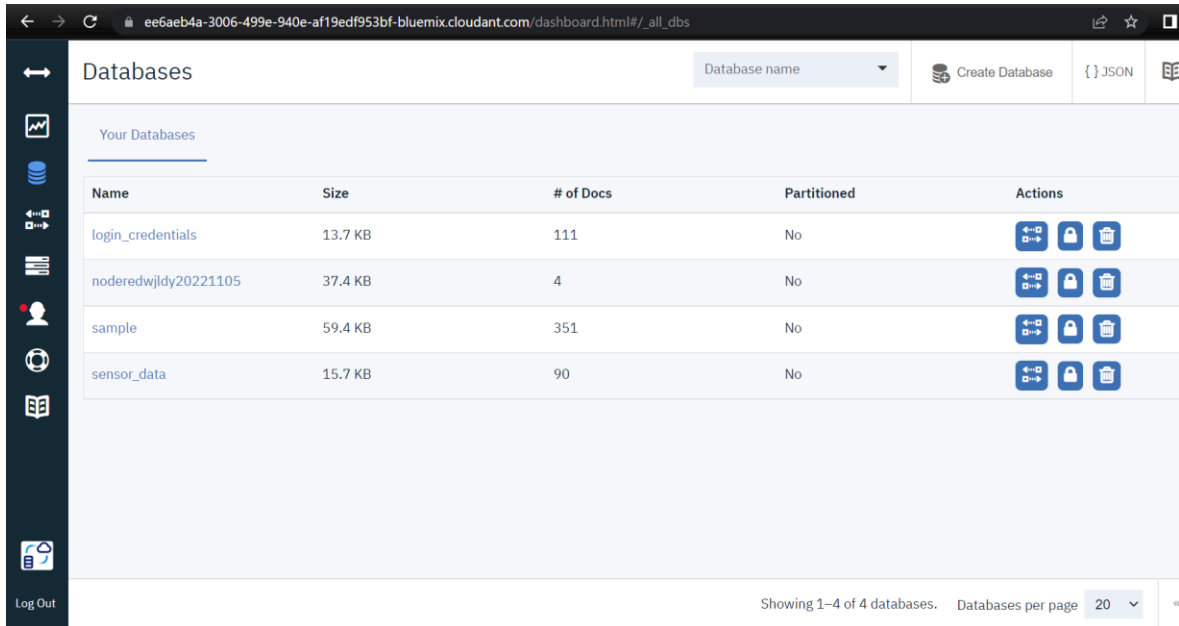
The screenshot shows the IBM Watson IoT Platform interface. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons. The main area displays a message: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this is a table with the following data:

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.



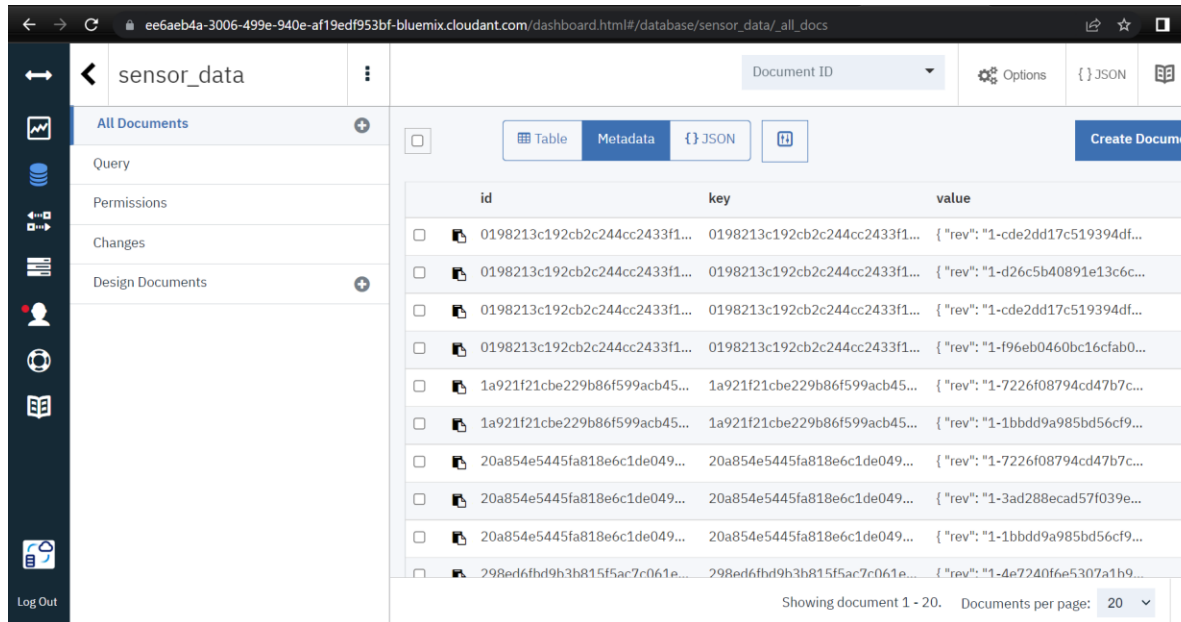
5 . Storing database in IBM cloudant DB.



The screenshot shows the IBM Cloudant Databases dashboard. The URL is `ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/all_dbs`. The page title is "Databases". There is a "Database name" dropdown, a "Create Database" button, and a "{ } JSON" icon. The main content area is titled "Your Databases" and contains a table with the following data:

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	[Icons: Edit, Lock, Delete]
noderedwjldy20221105	37.4 KB	4	No	[Icons: Edit, Lock, Delete]
sample	59.4 KB	351	No	[Icons: Edit, Lock, Delete]
sensor_data	15.7 KB	90	No	[Icons: Edit, Lock, Delete]

At the bottom, it says "Showing 1-4 of 4 databases. Databases per page 20".

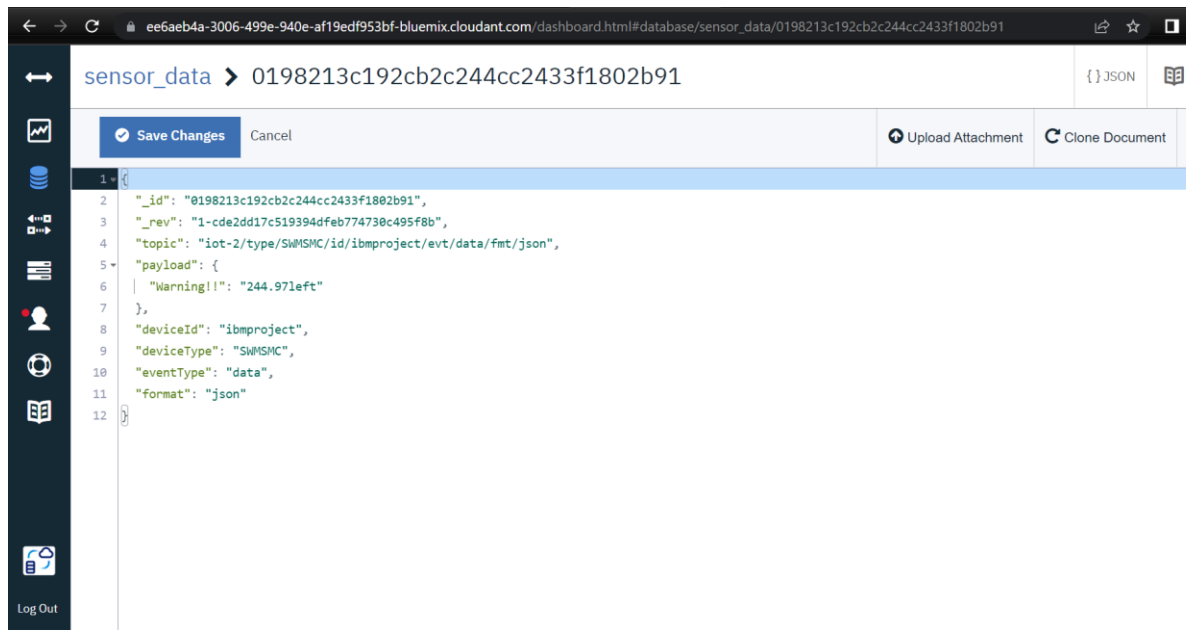


The screenshot shows the IBM Cloudant document view for the "sensor_data" database. The URL is `ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/database/sensor_data/all_docs`. The page title is "sensor_data". There is a "Document ID" dropdown, "Options" button, "{ } JSON" icon, and a "Create Document" button. The main content area is titled "All Documents" and contains a table with the following data:

id	key	value
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-d26c5b40891e13c6c..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-cde2dd17c519394df..." }
0198213c192cb2c244cc2433f1...	0198213c192cb2c244cc2433f1...	{ "rev": "1-f96eb0460bc16cfab0..." }
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-7226f08794cd47b7c..." }
1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-1bbdd9a985bd56cf9..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-7226f08794cd47b7c..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-3ad288ecad57f039e..." }
20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1bbdd9a985bd56cf9..." }
298ed6fhd9b3b815f5ac7c061e...	298ed6fhd9b3b815f5ac7c061e...	{ "rev": "1-4e7240f6e5307a1b9..." }

At the bottom, it says "Showing document 1 - 20. Documents per page: 20".

6. Data is stored in JSON format



7. Web UI

