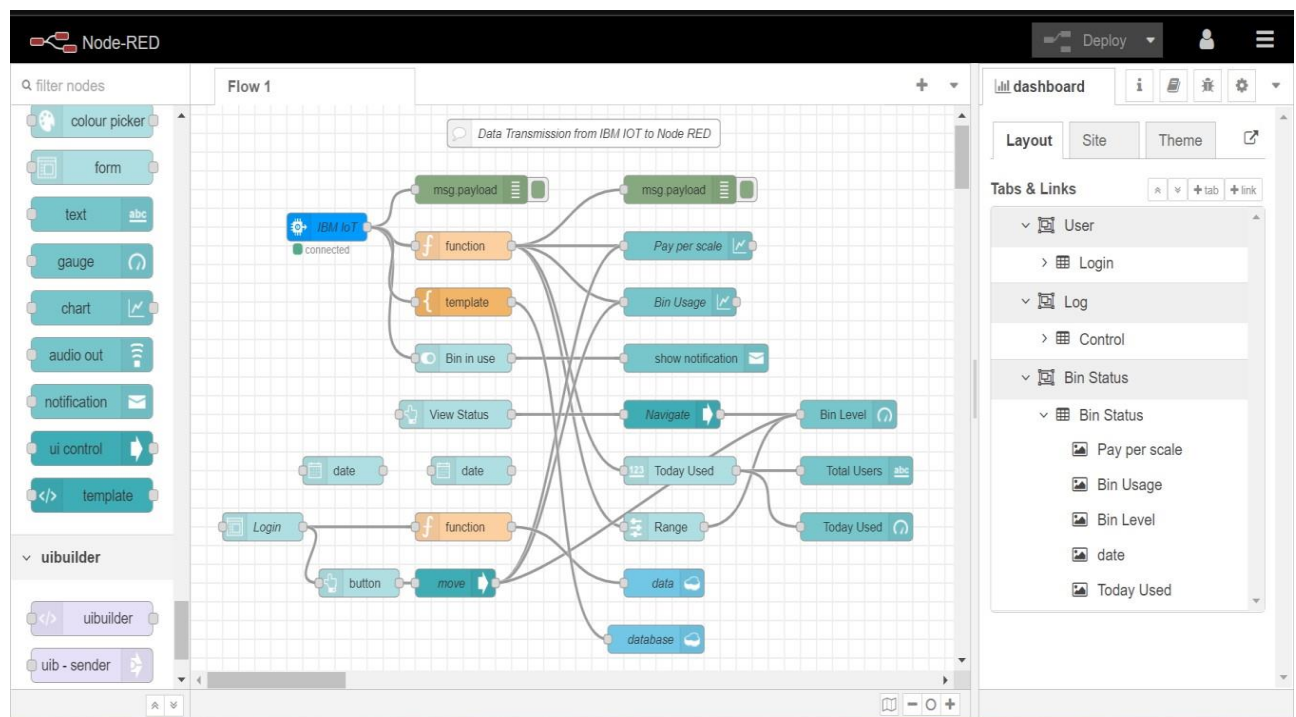


Delivery of Sprint – 4

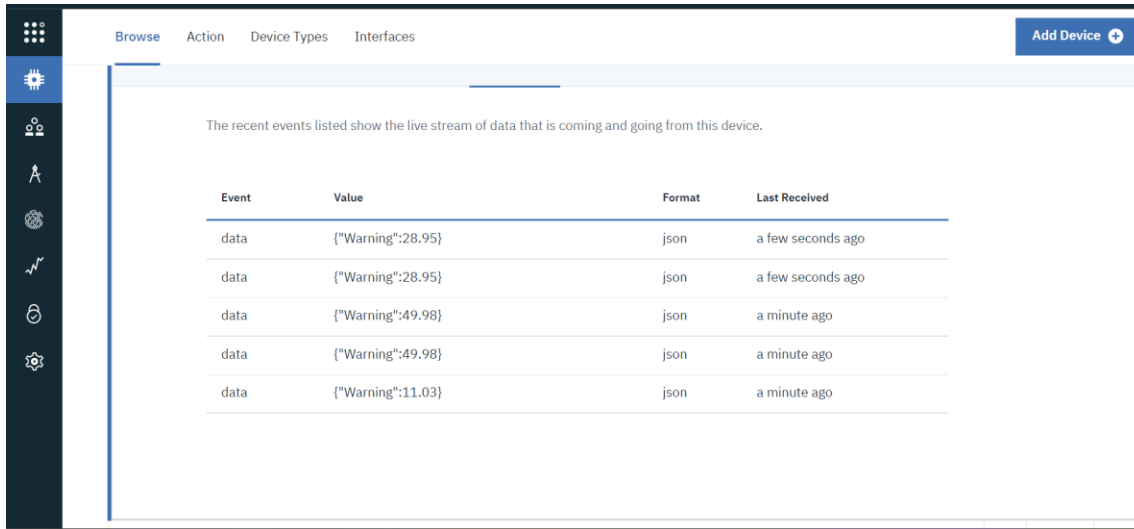
Web UI Design and Deploy

Date	5 November 2022
Team ID	PNT2022TMID43772
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.



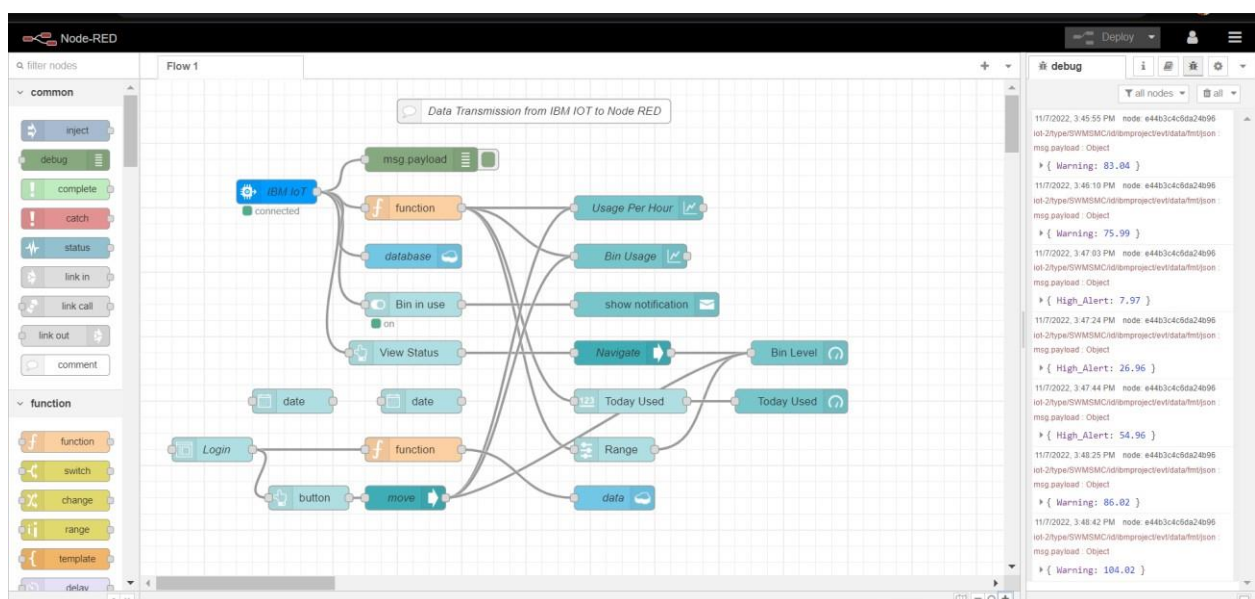
3. Data transfer to Watson IOT platform.



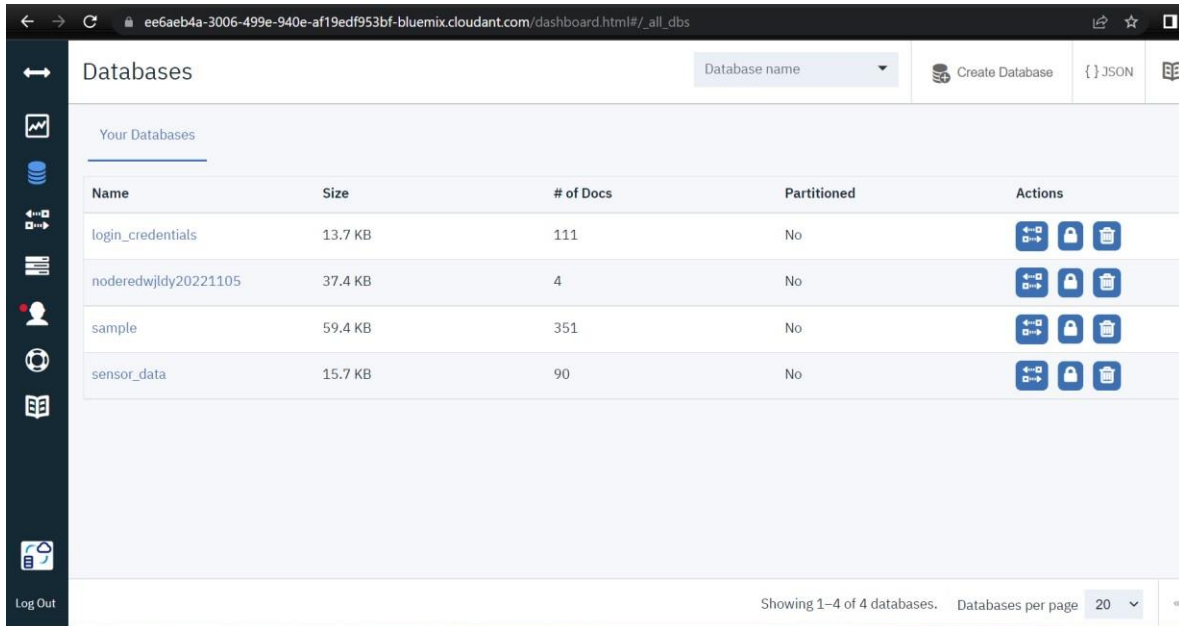
The screenshot shows the IBM Watson IoT Platform interface. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons. The main content area displays a table of recent events. The table has four columns: 'Event', 'Value', 'Format', and 'Last Received'. The data shows a stream of 'Warning' events with values like 28.95, 49.98, and 11.03, all in 'json' format, received 'a few seconds ago' or 'a minute ago'.

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.

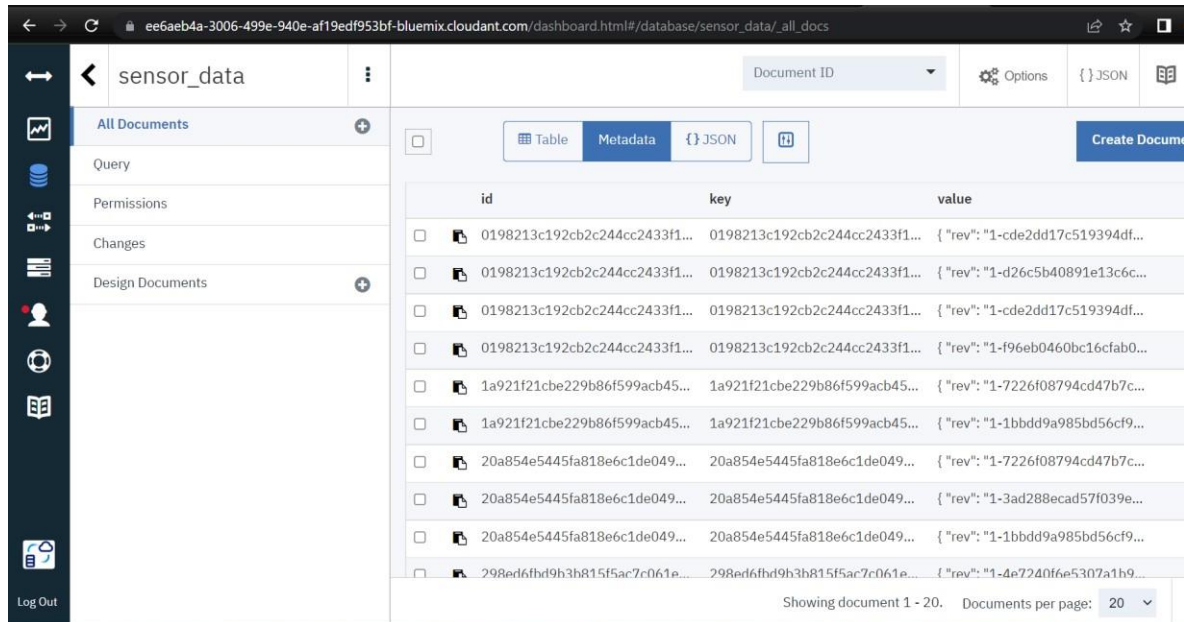


The screenshot shows the IBM Cloudant Databases dashboard. The URL in the browser is `ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/all_dbs`. The dashboard has a sidebar with navigation icons and a main content area titled "Databases".

At the top of the main content area, there is a "Database name" dropdown, a "Create Database" button, and a toggle for JSON format. Below this is a section titled "Your Databases" which contains a table listing the databases.

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	[Icons for edit, delete, and other actions]
noderedwjldy20221105	37.4 KB	4	No	[Icons for edit, delete, and other actions]
sample	59.4 KB	351	No	[Icons for edit, delete, and other actions]
sensor_data	15.7 KB	90	No	[Icons for edit, delete, and other actions]

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



The screenshot shows the IBM Cloudant database view for the "sensor_data" database. The URL in the browser is `ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/database/sensor_data/all_docs`. The view is titled "sensor_data" and has a "Document ID" dropdown, "Options" settings, and a toggle for JSON format.

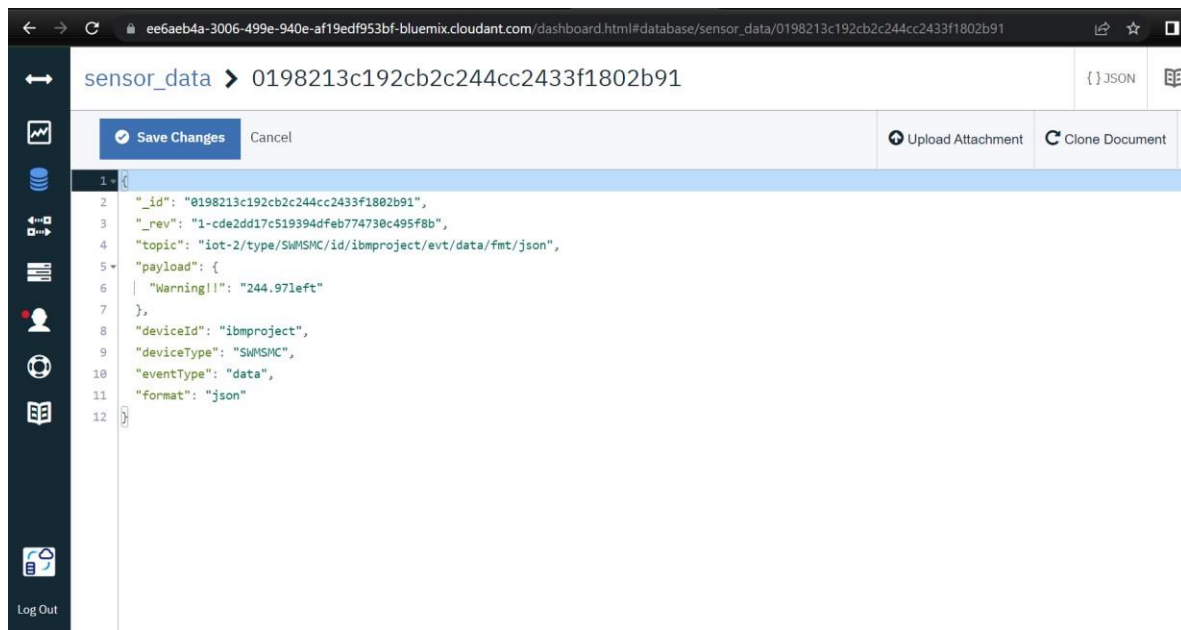
On the left side, there is a sidebar with navigation options: "All Documents", "Query", "Permissions", "Changes", and "Design Documents". The "All Documents" option is selected.

The main content area shows a table of documents. The table has three columns: "id", "key", and "value". Each row represents a document in the database.

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": "1-4e72d0f6e5307a1b9..." }

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

6. Data is stored in JSON format



7. Web UI

