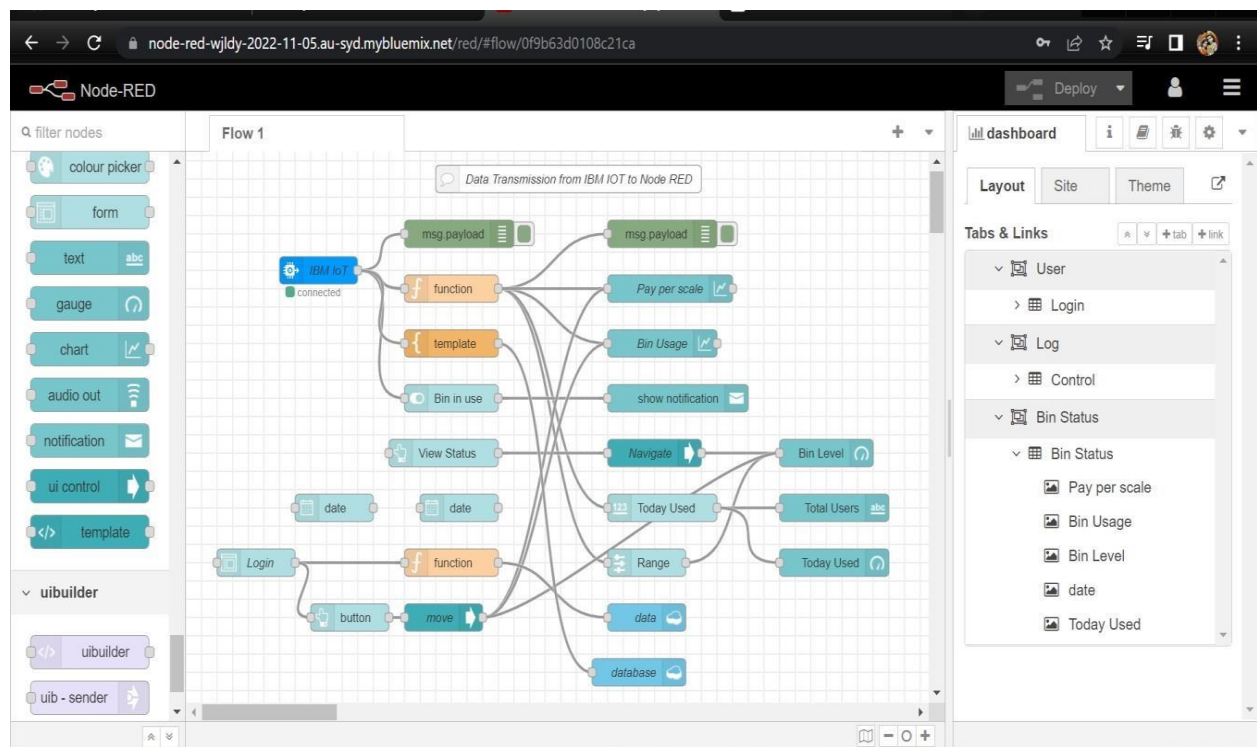


Web UI Design and Deploy

Date	9 November 2022
Team ID	PNT2022TMID44517
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.

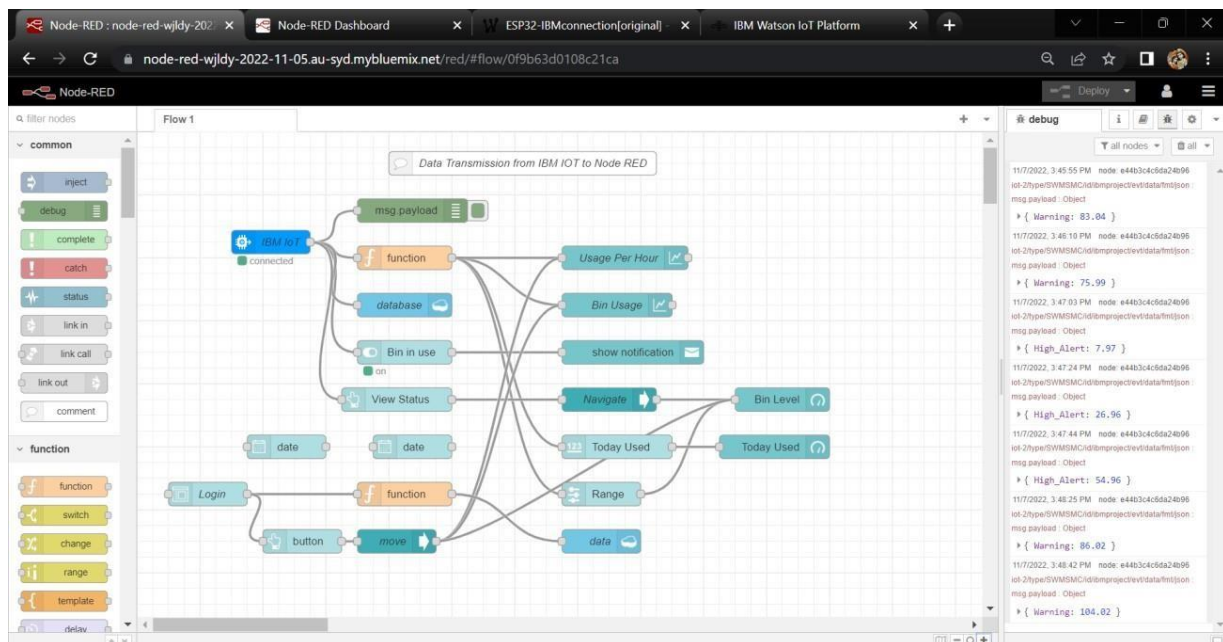


3. Data transfer to Watson IOT platform.

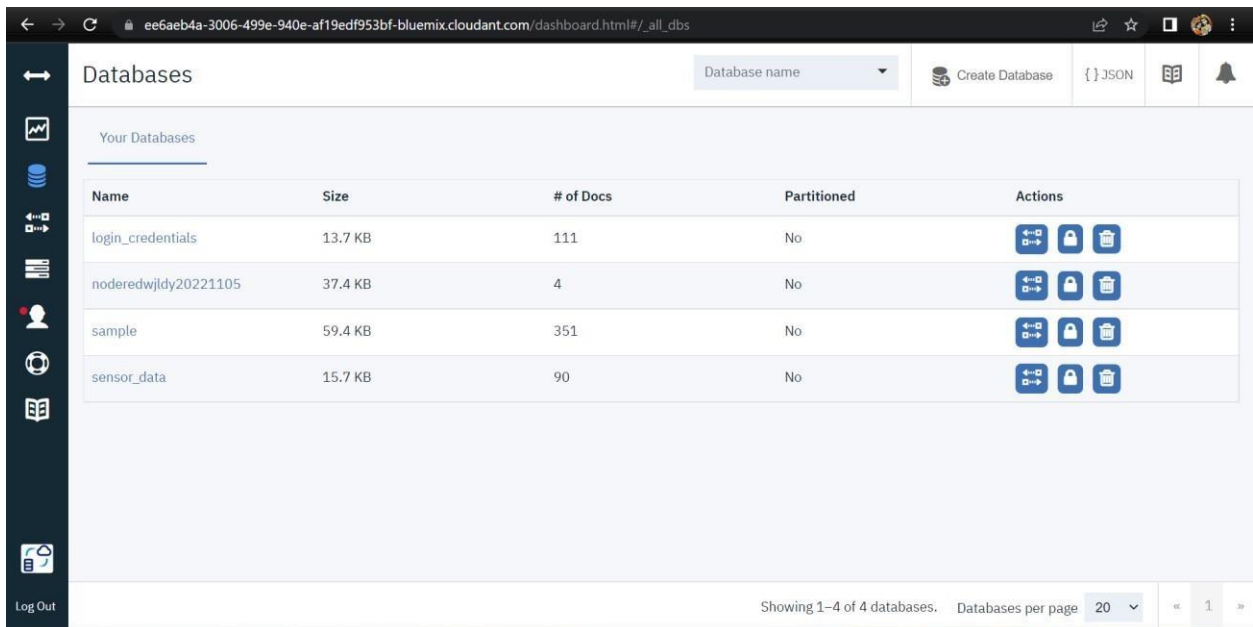
The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes the IBM logo, the text "IBM Watson IoT Platform", and a user profile section with a question mark icon, the email "962319104024@students.amrita.edu.in", and the device ID "9gbe4w". Below the navigation bar, there are tabs for "Browse", "Action", "Device Types", and "Interfaces". The "Browse" tab is selected. On the right side of the "Browse" tab, there is a blue button labeled "Add Device" with a plus icon. The main content area displays a message: "The recent events listed show the live stream of data that is coming and going from this device." Below this message is a table with four columns: "Event", "Value", "Format", and "Last Received". The table contains five rows of data, all showing a "Warning" event with a value of 28.95 or 49.98 or 11.03, 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.



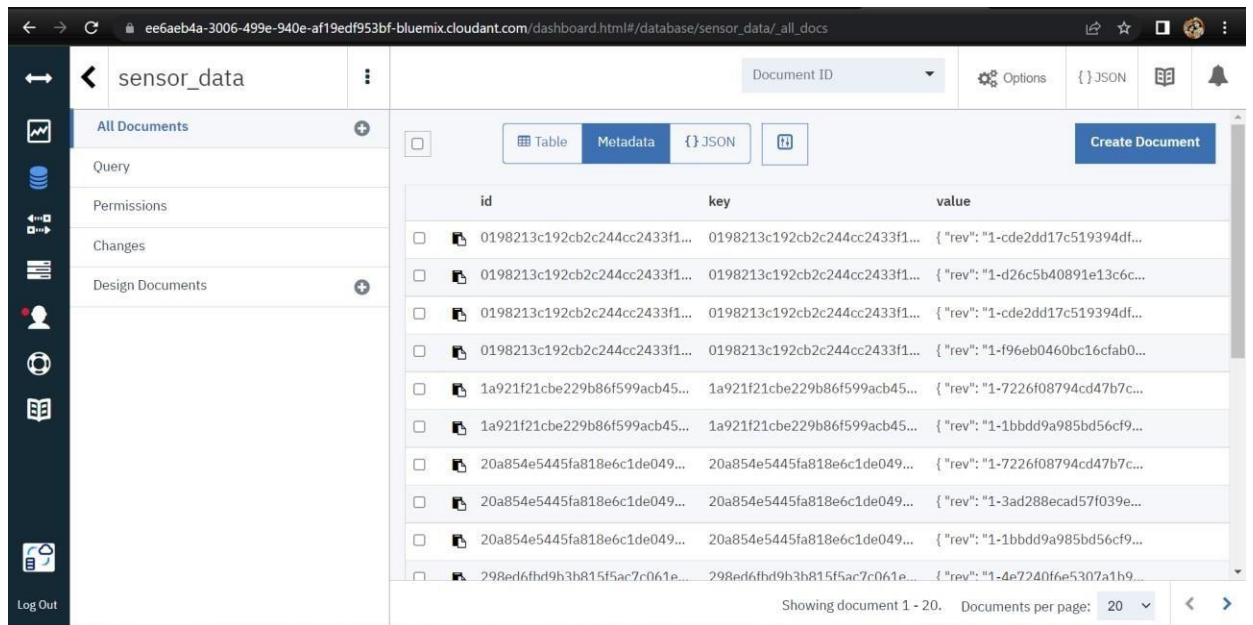
5 . Storing database in IBM cloudant DB.



The screenshot shows the IBM Cloudant Databases dashboard. The URL 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 icons for JSON, a book, and a bell. The "Your Databases" section contains a table with the following data:

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

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

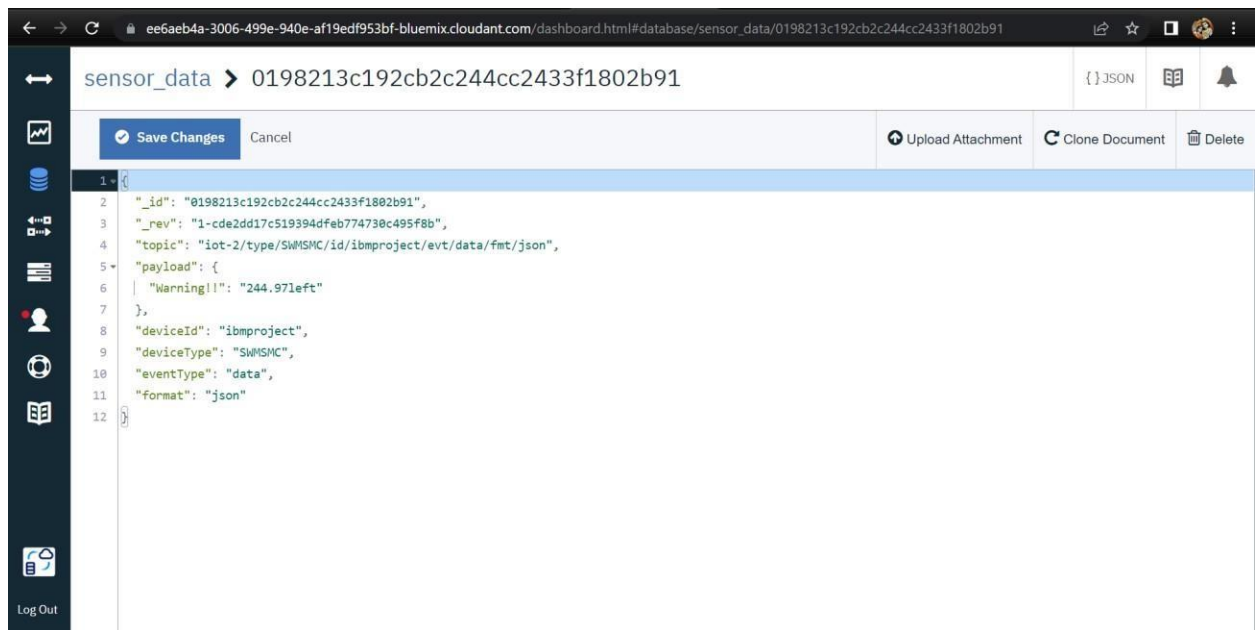


The screenshot shows the IBM Cloudant document view for the "sensor_data" database. The URL is `ee6aeb4a-3006-499e-940e-af19edf953bf-bluemix.cloudant.com/dashboard.html#/database/sensor_data/all_docs`. The page title is "sensor_data". There is a "Document ID" dropdown, "Options" gear, JSON icon, book icon, and bell icon. The "All Documents" section is active. The "Table" view is selected. The table has columns "id", "key", and "value". The data is as follows:

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" with navigation arrows.

6. Data is stored in JSON format



7. Web UI

