

## Sprint – 2

Date	08 November 2022
Team ID	PNT2022TMID04739
Project Name	Project - IoT based safety gadget for Child Safety Monitoring and Notification
TEAM LEADER	VIMAL NISHANTHAN T
TEAM MEMBERS	SRINATH A VISHNU PRASATH S SURYA PRAKASH S SUJITH S

**USN- 4 :** Integrating the IBM Watson IoT Platform and Cloudant DB with the node red.

- Launching IBM IoT Watson

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device +

### Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

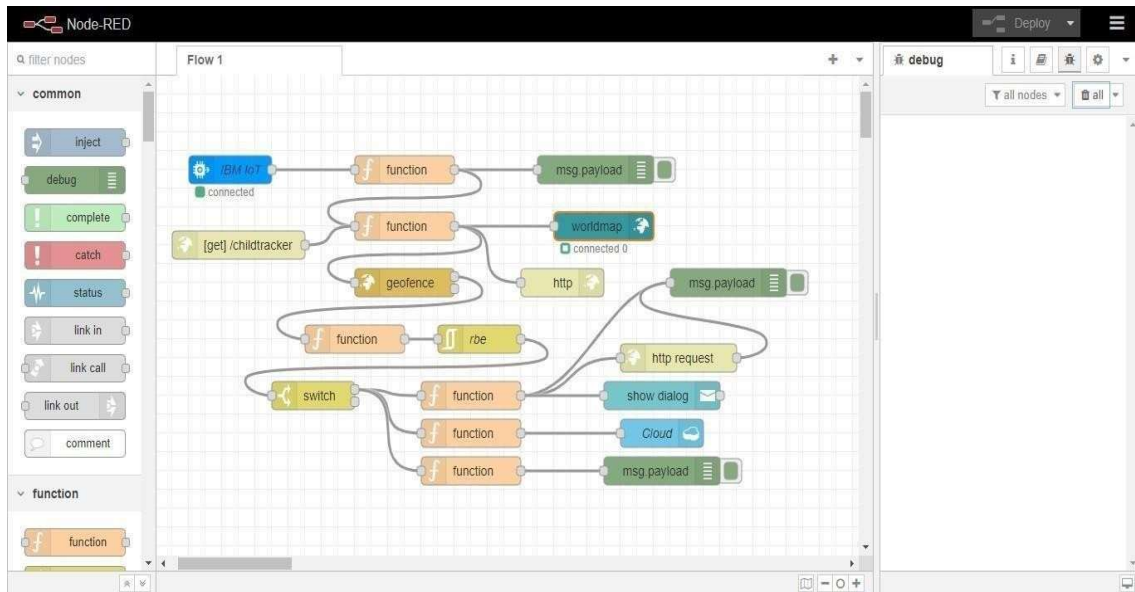
Device Simulator

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	28	Disconnected	Tracker	Device	Nov 6, 2022 11:54 AM

Items per page 50 | 1-1 of 1 item

1 of 1 page < 1 >

- Implementing the node-red in IBM cloud.
- Designing the node-red work flow for our project.



- Launch the cloudant DB and create a database to store the location data.

The image shows the IBM Cloudant 'Databases' interface. It features a sidebar with navigation links for Monitoring, Databases, Replication, Active Tasks, Account, Support, and Documentation. The main area displays a table of databases. The table has columns for Name, Size, # of Docs, Partitioned, and Actions. There are three databases listed: 'child\_location', 'noderednwbe20221105', and 'sample'. Each database has a set of action icons (edit, lock, delete).

Name	Size	# of Docs	Partitioned	Actions
child_location	0 bytes	0	Yes	[edit] [lock] [delete]
noderednwbe20221105	30.4 KB	4	No	[edit] [lock] [delete]
sample	0 bytes	0	Yes	[edit] [lock] [delete]

Showing 1-3 of 3 databases. Databases per page 20

- For our project we are creating a database called child location.



## USN – 5 : Developing the Python code for connecting with IBM Watson IoT platform.

```

1  import time
2  import wiotp.sdk.application
3  print("Hello")
4  myConfig = {
5      "identity": {
6          "orgId": "fjde2i",
7          "typeId": "Tracker",
8          "deviceId": "28",
9      },
10     "auth": {
11         "token": "123456789"
12     }
13 }
14 client = wiotp.sdk.device.DeviceClient(config = myConfig, logHandlers = None)
15 client.connect()
16
17 while True:
18     name = "Child"
19     #in area location
20
21     latitude = 17.4219272
22     longitude = 78.5488783
23
24
25
26     #out area location
27
28     #latitude = 17.4219272
29     #longitude = 78.5488783
30     myData = {'name': name, 'lat': latitude, 'lon': longitude}
31     client.publishEvent(eventId = "status", msgFormat = "json", data = myData, qos = 0, onPublish = None)
32     print("Data published to IBM IoT Platform: ", myData)
33     time.sleep(5)
34
35 client.disconnect()
36

```

- Connected successfully with IBM IoT Watson.

```

Run: child x
C:\Users\dell\AppData\Local\Programs\Python\Python311\python.exe C:/Users/dell/AppData/Local/Programs/Python/child.py
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
2022-11-08 20:56:53,786 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:fjde2i:Tracker:28
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}

```

- IBM IoT Watson platform receiving the details of the child's location.

Brave Action Owice Types Interfaces					Add Device +
Identify Deyke Tototma4ion Recent Events Settings Logs					X
status	{"name": "Child", "lat": 17.4219272, "lon": 78.5488783}			json	a few seconds ago
status	{"name": "Child", "lat": 17.4219272, "lon": 78.5488783}			json	a few seconds ago
status	{"name": "Child", "lat": 17.4219272, "lon": 78.5488783}			json	a few seconds ago
status	{"name": "Child", "lat": 17.4219272, "lon": 78.5488783}			json	a few seconds ago
status	{"name": "Child", "lat": 17.4219272, "lon": 78.5488783}			json	a few seconds ago