

Date	18 November 2022
Team ID	PNT2022TMID37031
Project Name	Project - IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	2 Marks

## SPRINT-3

### IoT Device – Watson communication

The data from IoT device should reach IBM Cloud

(The data stored in IBM Cloud should be properly integrated with Cloudant DB)

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The 'Browse Devices' section shows a table with one device: ID 12345, Status 'Disconnected', Type 'NodeMCU', Class 'Device', added on Nov 14, 2022. The bottom section shows a table of recent events, all with the value 'Warning' and timestamps ranging from 'a few seconds ago' to 'a minute ago'.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	NodeMCU	Device	Nov 14, 2022 7:59 PM	

  

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

## **NODE RED-CLOUDANTDB COMMUNICATI**

Node-RED interface showing a flow for Child Tracker. The flow includes nodes for IBM IoT, function, msg.payload, worldmap, geofence, rbe, switch, http request, show dialog, child, and msg.payload. The console shows the following code:

```

1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6   "identity": {
7     "orgId": "hj5fmy",
8     "typeId": "NodeMCU",
9     "deviceId": "12345"
10  },
11  "auth": {
12    "token": "12345678"
13  }
14 }
15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
16 client.connect()
17
18 while True:
19   name= "Smartbridge"
20   #in area location
21
22   #Latitude= 17.4225176
23   #Longitude= 78.5458842
24
25   #out area location
26
27   latitude= 17.4219272
28   longitude= 78.5488783
29   myData={'name': name, 'lat':latitude,'lon':longitude}
30   client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
31   print("Data published to IBM IoT platform: ",myData)
32   time.sleep(5)
33
34 client.disconnect()
35
36

```

The console output shows repeated messages: "Data published to IBM IoT platform: ".

Databases

Database name

Create Database {} JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
login_credentials	13.7 KB	111	No	
noderedwjldy20221105	37.4 KB	4	No	
sample	59.4 KB	351	No	
sensor_data	15.7 KB	90	No	

Log Out

Showing 1-4 of 4 databases. Databases per page 20 1

ON:

All Documents
+

Query

---

Permissions

---

Changes

---

Design Documents

+

Table

Metadata

JSON

Create Document

	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-f96be0460bc16cfab0..." }
<input type="checkbox"/>	1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-7226f08794cd47b7c..." }
<input type="checkbox"/>	1a921f21cbe229b86f599acb45...	1a921f21cbe229b86f599acb45...	{ "rev": "1-1bbdd9a985bd56cf9..." }
<input type="checkbox"/>	20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-7226f08794cd47b7c..." }
<input type="checkbox"/>	20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-3ad28becad57f039e..." }
<input type="checkbox"/>	20a854e5445fa818e6c1de049...	20a854e5445fa818e6c1de049...	{ "rev": "1-1bbdd9a985bd56cf9..." }
<input type="checkbox"/>	298ed6fhd93b815f5ac7c061e...	298ed6fhd93b815f5ac7c061e...	{ "rev": "1-a67240f6a5307a1b9..." }

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