SPRINT 2

TEAM ID: PNT2022TMID20975

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

AIM:

To create device in the IOT Watson Platform and Configure Node Red Services.

REQUIREMENT:
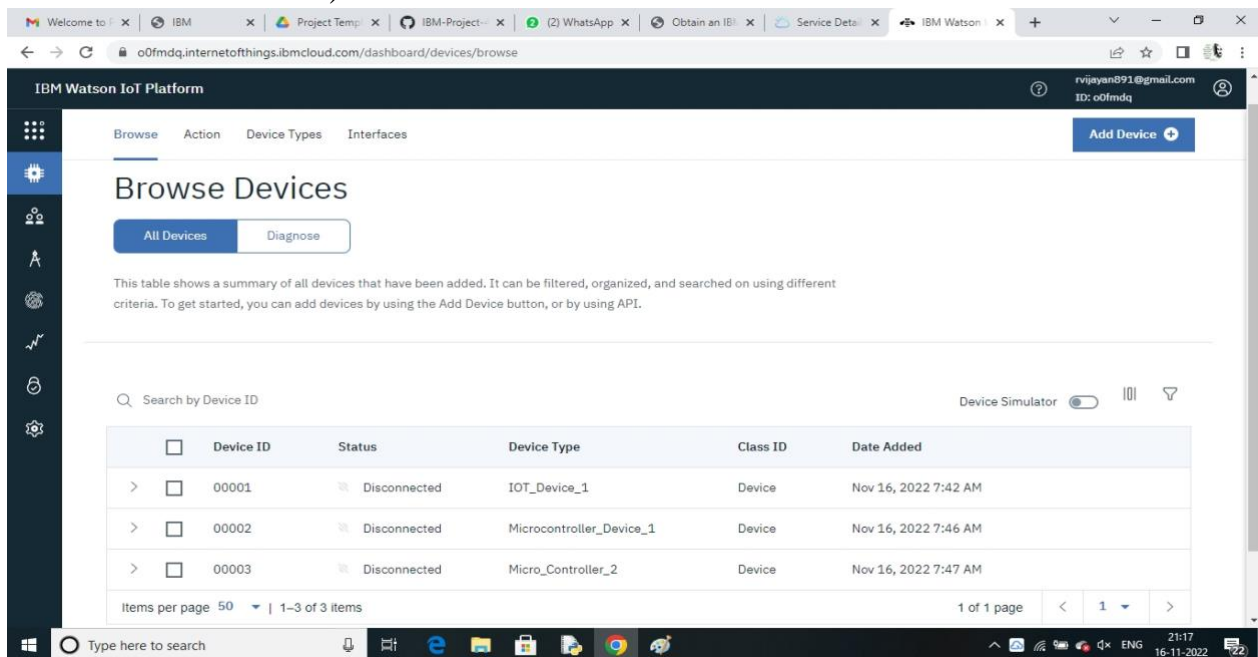
IBM cloud, IBM IOT WATSON PLATFORM,NODE RED SERVICES.

WORKFLOW:

STEP 1:

Log on to IBM cloud and create IBM Watson IOT Platform from IBM cloud Dashboard.

STEP 2:

After Creating IBM Watson IOT Platform,create an Organization (ex.84708c ID: 84708c Bluemix Free)

STEP 3:

Create an device IBM IOT PALTFORM.

TYPE THE REQUIRED FIELDS (TYPE: ESP32 , ID: 1234)
GIVE AUTH-TOKEN.

STEP 4:

NODE RED SERVICE
- INSTALL IBM IOT IN MANGE PALETTE. ●
  INSTALL NODE RED DASHBOARD.

STEP 5:

Configuring the corresponding nodes

STEP 6:

Deploy the Services and verify the output values.

OUTPUT IN IBM WATSON IOT PLATFORM:

← → C 🔒 84708c.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

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Browse   Action   Device Types   Interfaces

Add Device ⊕

		Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
∨	■	12345	● Connected	abcd	Device	Nov 9, 2022 9:43 PM	

Identity   Device Information   **Recent Events**   State   Logs   ✕

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSensor	{"temp":91,"Humid":80,"Ph":9,"Water_turbidity":...	json	a few seconds ago
IoTSensor	{"temp":95,"Humid":92,"Ph":14,"Water_turbidity...	json	a few seconds ago
IoTSensor	{"temp":99,"Humid":91,"Ph":5,"Water_turbidity":...	json	a few seconds ago
IoTSensor	{"temp":103,"Humid":60,"Ph":6,"Water_turbidity...	json	a few seconds ago
IoTSensor	{"temp":105,"Humid":96,"Ph":12,"Water_turbidit...	json	a few seconds ago

1 Simulation running

✕

Event Payload

Event Name   event_1

Time Received   Nov 15, 2022 10:05 PM

```
1 ▾ {
2     "Water_Turbidity": 97,
3     "Ph": 6,
4     "moisture": 10,
5     "nutrients": 85,
6     "salinity": 47,
7     "dissolved_O2": 53
8 }
```