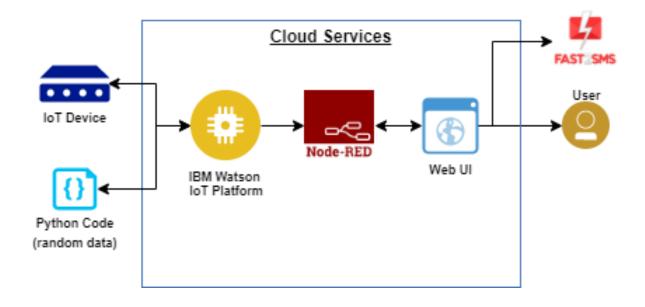
SPRINT-III

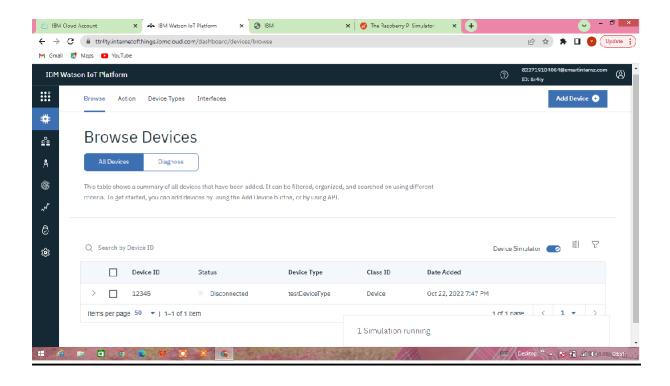
PROJECT DEVELOPMENT PHASE

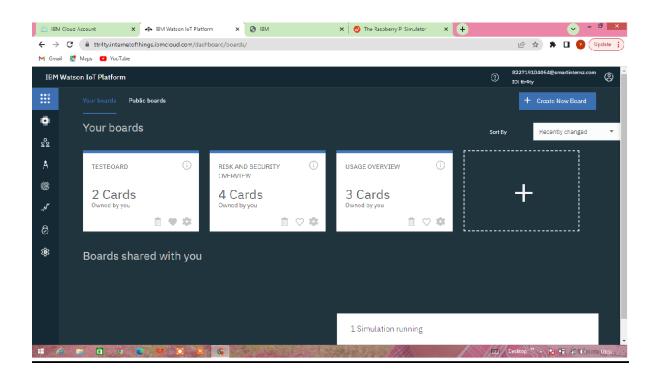
DATE	16 OCTOBER 2022	
TEAM LEADER	VISHNU KUMAR N	
TEAM MEMBERS	SURESH S MATHAN KUMAR T SASI KUMAR K	
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITERING AND CONTROL SYSTEM	

WHOLE PROJECT OVERVIEW

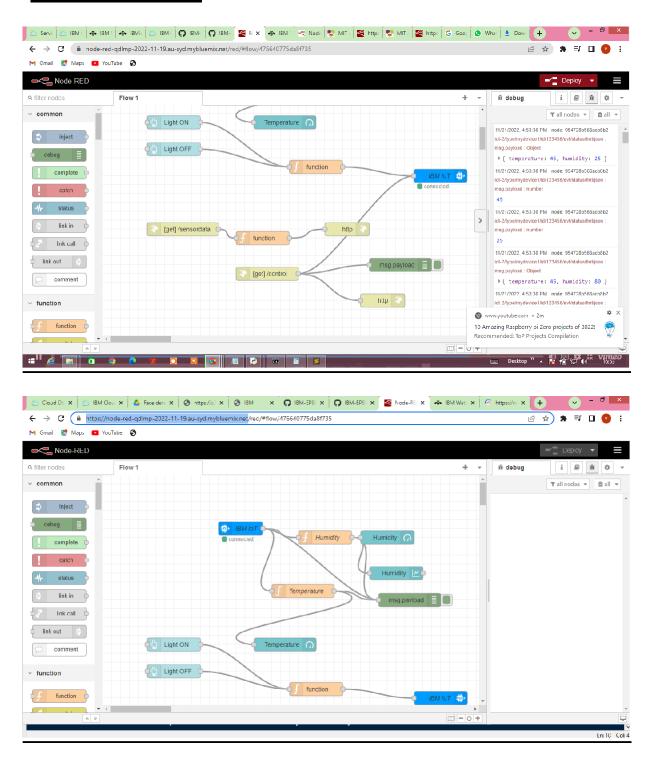


DEVICE CONNECTED IN WATSON PLATFORM



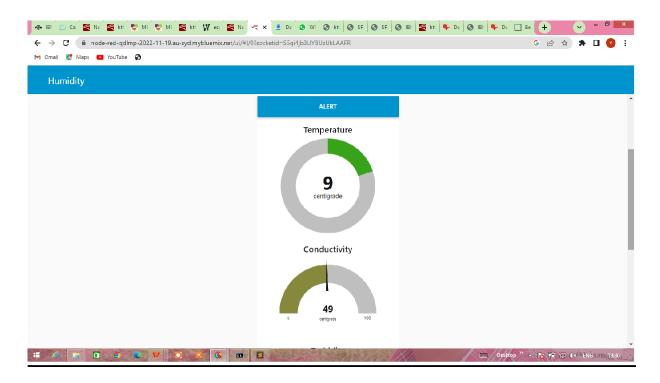


NODE-RED CONNECTED WITH SOURCE CODE WITH WATSON DEVICE

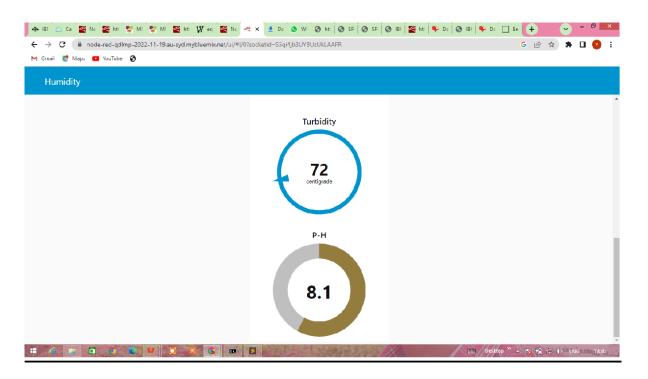


WEB-UI

TEMPERATURE AND CONDUCTIVITY



TURBIDITY AND P-H



NOW IN SPRINT ONE WE ARE IN DEVELOPING PYTHON CODE(RANDOM VALUES)

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "ttr4ty",
    "typeId": "mydevice1",
    "deviceId":"123456"
  },
  "auth": {
    "token": "abcd1234"
  }
}
def\ my Command Callback (cmd):
  #print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
  m=cmd.data['command']
```

```
if m == "lighton":
    print("Water is Quality is Bad !!!!! ")
    print("\n")
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()
while True:
  temp=random.randint(-20,125)
  hum=random.randint(0,100)
  con = random.randint(0,100)
  tur = random.randint(0,100)
  phh = round(random.uniform(6.5,8.5),1)
  #k = float(input("Enter ph level of water : "))
  #if (k \ge 6.5 \text{ and } k \le 8.5):
  # phh = k
  #else:
  # phh = 0
  myData={'temperature':temp,
'humidity':hum,'conductivity':con,'turbidity':tur,'ph':phh}
```

```
client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None)

print(myData)

print("\n")

client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()
```