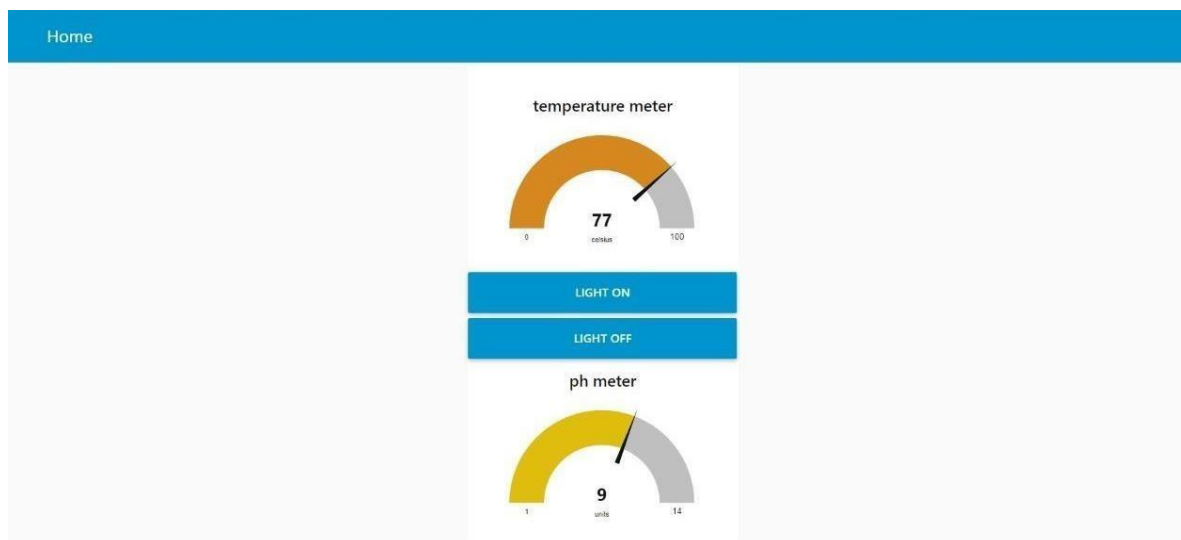
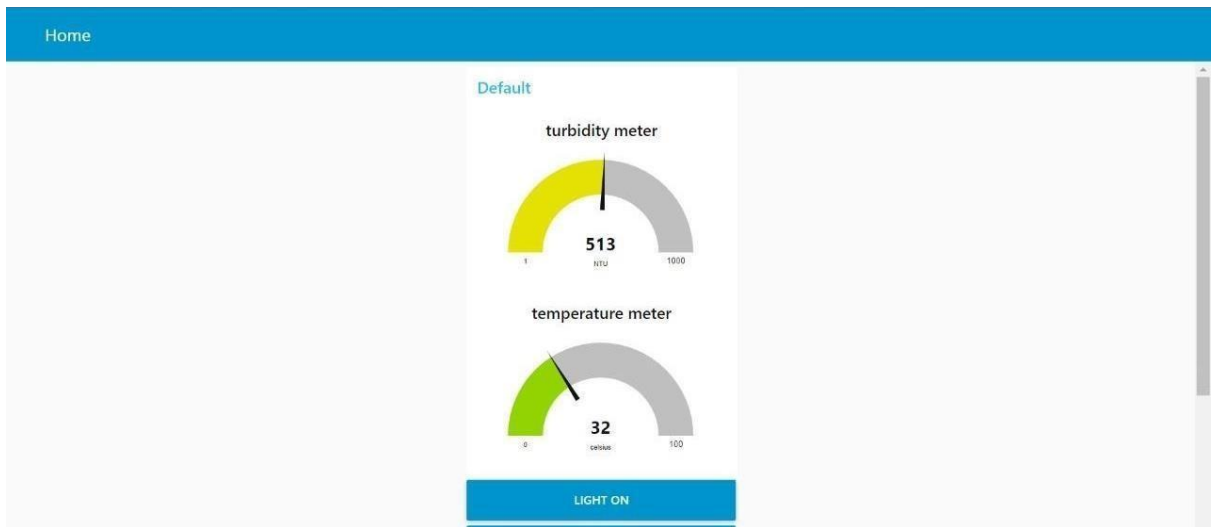


Sprint-3

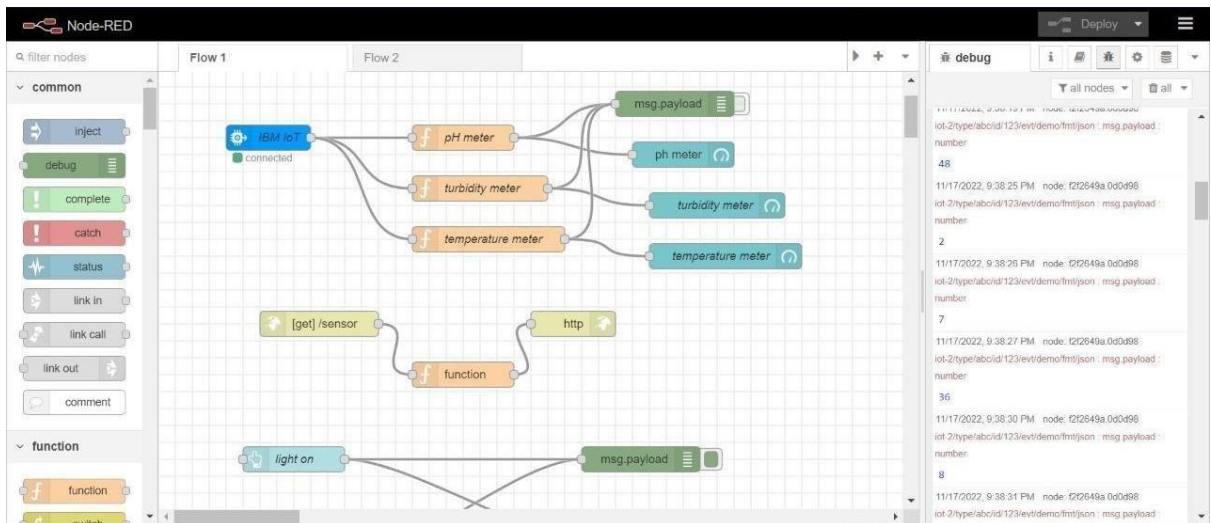
Date	19 November 2022
Team ID	PNT2022TMID04601
Project Name	Real Time River Water Quality Monitoring and Control System
Maximum Marks	20 marks

WEB UI

WEB UI FOR USER TO INTERACT WITH THE SOFTWARE:



NODE RED DEPLOYMENT:



PYTHON IDLE OUTPUT WHEN PYTHON SCRIPT IS RUN

```
File Edit Format Run Options Window Help
import ibmiotf.device
import ibmiotf.application
import time
import random
import sys
from twilio.rest import Client
import keys
Client = Client(keys.account_sid, keys.auth_token)

organization = "15rapi"
deviceType = "abc"
deviceId = "123"
authMethod = "token"
authToken = "12345678"

# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="light on":
        print ("led is on")
    elif status == "light off":
        print ("led is off")
    else :
        print ("please send proper command")

pH = random.randint(1, 14)
turbidity = random.randint(1, 1000)
temperature = random.randint(0, 100)

def myCommandCallback(cmd):
    print("Command Received: %s" % cmd.data['command'])
    print(cmd)

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId,
                    "auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
```

Ln: 30 Col:

```

2+22 11 17 22:05:.J5',7C1 ibniutf.deviut.UliinL INFO Connected succe
agfq ly: d:lhrrzn:zhcl9/
Published pH 12 T.urbidity:4.0'4. Temperature:3
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QUh'li.9h'9/_Q\=:t:T)?SB}'d'j.'tjz'5/)'t' 9jstl?te( 4
Sent from'.yodr: 'wi'lio trial account - hLERT!! 'THE WATER QUALITY IS DEGRADED
PñbliJhed' lH= 5 iurbiGi'ty:619'.tempefatufe:.42
Sept trod' your jJin''trtaj. a; ount.'- Afi5RT!! TWW WAtR.QURLTTY. TS' OWSRADTW"
PNQlished pH $.Tqrbidity:2'12 Temperaiur'e:03
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2ubliJhed lH=: V0 iurbiGi'Ly:.170..YemDefature:.90''
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Pdblished'pH 4. Turbidity:112.Temperdiñre:52
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PUDlj' #'9/_Q\=: 5 Tj?Ui'Qj.'t.·\·'4;1D jé.##9jstl?té)·..9d'
Smnt from'.your' Lai'lio tria account - hLERT! ! THE WATER QUALITY I5. DEGRADED
fulli0hed' lH= 1JurbiGi.Ly:.773'..tempefatufe:.96.
Sent tr'om yoli'r. iilto'trtaj JrcoOnt.- ALSPT!! TWW WAtR.QURLTTY. TS' OWSRADTW"
Pñ$lished' pH t Tqrbidity'tJ5 TemperaCur'e:BS
Sent ffrom your Twilio: trial. acuoun.t. ALElf!! THE WATER QUALITY IS DEGRADED
Publi' sheJ pW=. ñ Tpr$jj: ''dftyL7j0 Temperatqté:S3.

```

NODE RED ARCHITECTURE

