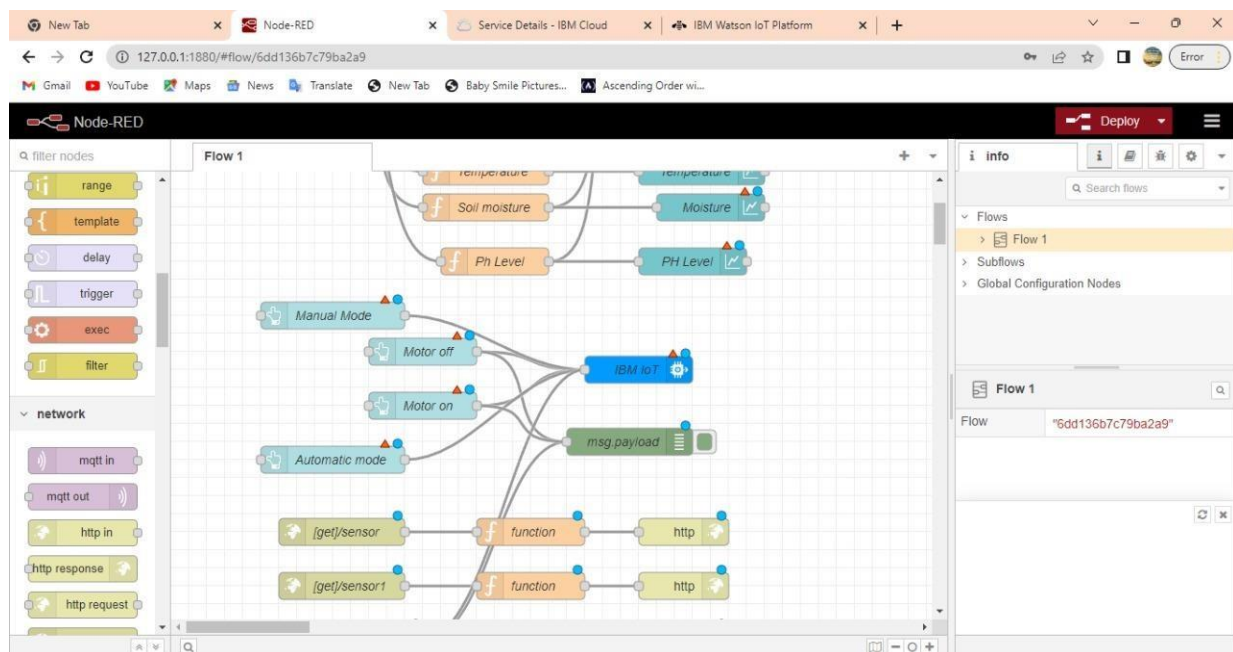


Sprint 2

Date	5 th November 2022
Team ID	PNT2022TMID11082
Project Name	Project - SmartFarmer - IoT Enabled Smart Farming Application

- Created the device on IBM cloud platform and the node red platform to set the IoT device workflow.



Browse

IBM Cloud Apps

+ Generate API Key

Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see [API key connection](#).

<input type="checkbox"/>	Key	Description	Role	Expires	
6 results					
<input type="checkbox"/>	a-tuwf7p-8hwp70k3fu	-	Standard Application	-	<div></div>
<input type="checkbox"/>	a-tuwf7p-c8q76zifbz	-	Standard Application	-	<div></div>
<input checked="" type="checkbox"/>	a-tuwf7p-cas0rfoblg	-	Standard Application	-	<div></div>

API Key Information

Access Control/Permissions

0 Simulations running

smartform.py - C:/Users/ADMIN/Documents/smartform.py (3.11.0)

File Edit Format Run Options Window Help

```

import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#provide your IBM Watson Device Credentials
organization = "138693"
deviceType = "abod"
deviceId = "1234"
authMethod = "token"
authToken = "12345678"

# Initialize GPIO
def myCommandCallback(cmd):
    print("command received: %s"% cmd.data['command'])
    Status=cmd.data['command']
    if status=="MotorOn":
        print ("Motor is On")
    elif status == "Motor Off":
        print ("Motor is Off")
    else :
        print ("please send proper command")
try:
    deviceOptions = {"org": organization, "type": deviceType, "id":deviceId}
    devicecli = ibmiotf.device.client(deviceOptions)
    #.....
except Exception as e:
    print("Caught exception connecting device: %s"%str(e))
    sys.exit()

# connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
devicecli.connect()

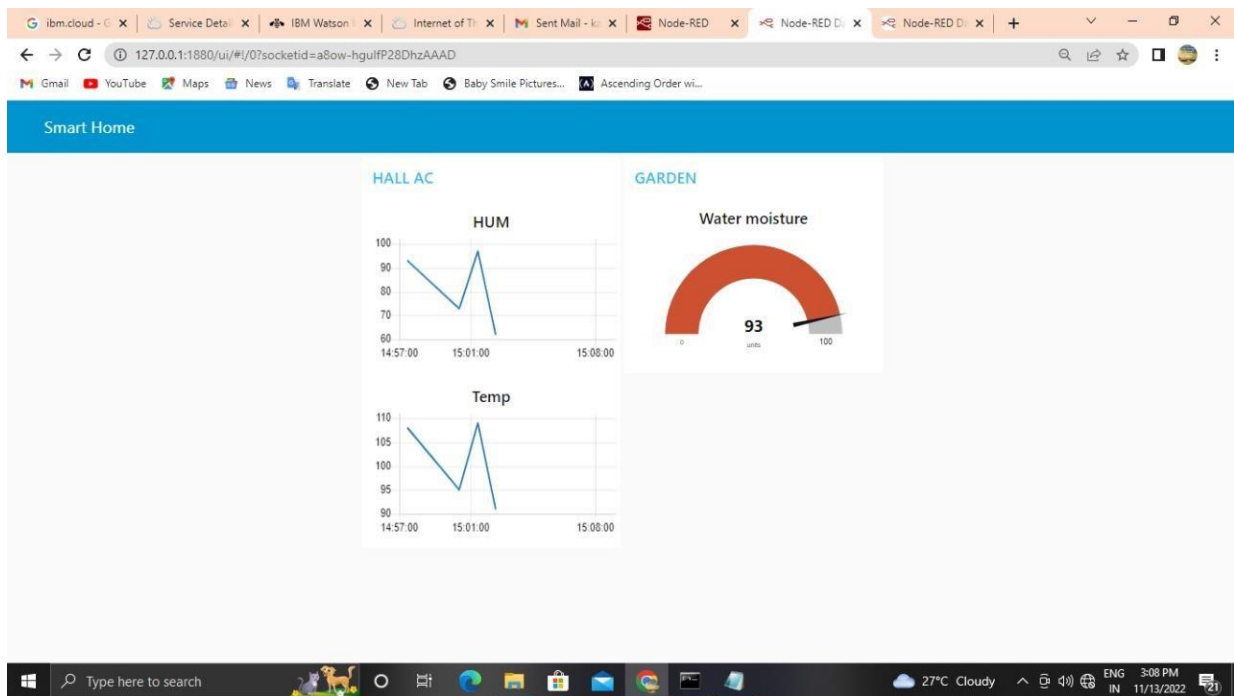
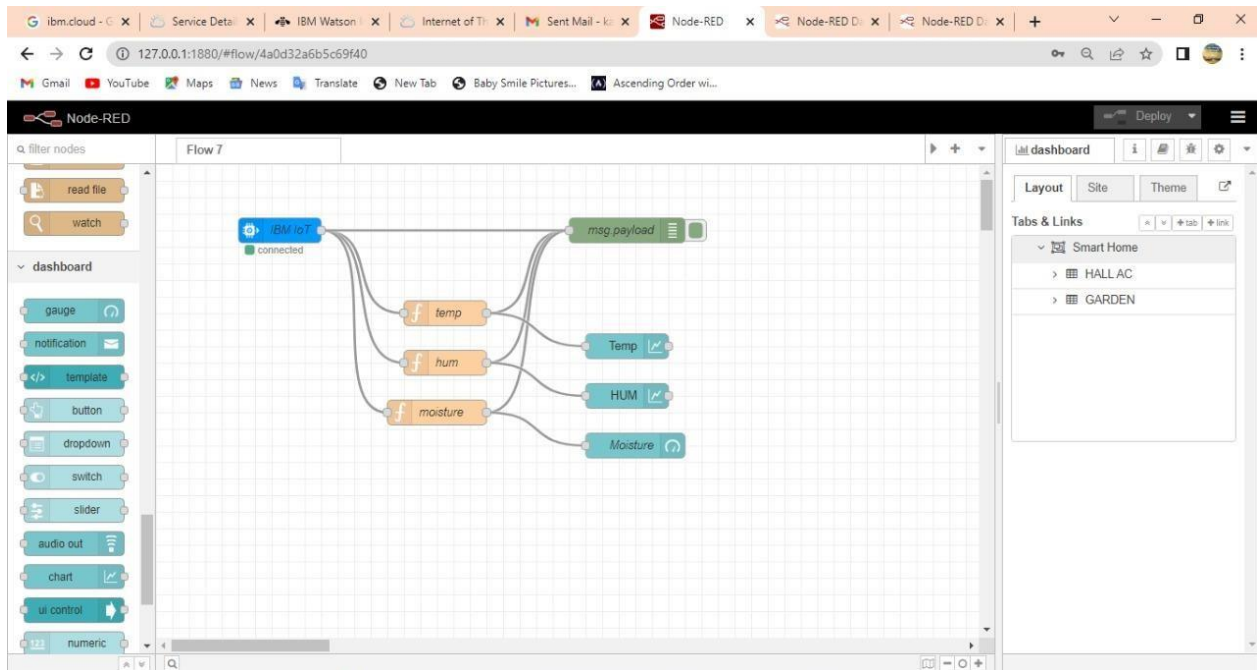
while True:
    #get sensor data from DHT11
    temp=random.randint(90,110)
    Humid=random.randint(60,100)

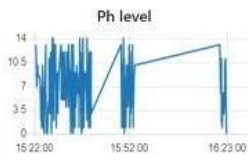
    data = { 'temp' : temp, 'Humid' : Humid }

```

Line 6

Col 1





MOTOR OFF

MOTOR ON

MANUAL MODE

AUTOMATIC MODE

