## Project Development Phase Delivery of Sprint 3

Date	18 November 2022
Team ID	PNT2022TMID16936
Project Name	Project –Gas leakage monitoring and alerting system for industries
Marks	20 marks

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Code:
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = " 5py6q9"
deviceType = "Weather_now"
deviceId = "Weather1234"
authMethod = "use-token-auth"
authToken = " XeJiFa7_@@t9@@eq_?"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="lighton":
    print ("Light is on")
  elif (status == "lightoff") :
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print ("Light is off")

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elif status == "sprinkleron":
    print("Sprinkler is OFF")
  elif status == "sprinkleron":
    print("Sprinkler is ON")
  #print(cmd)
 try:
       deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":
authMethod, "auth-token": authToken}
       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(0,100)
    Humid=random.randint(0,100)
    gas=random.randint(0,100)
    data = { 'temp' : temp, 'Humid': Humid, 'gas' : gas }
    #print data
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def myOnPublishCallback():
    print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "Gas_Level =
%s %%" %gas, "to IBM Watson")

success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
    on_publish=myOnPublishCallback)
    if not success:
    print("Not connected to IoTF")
    time.sleep(1)

deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the
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clouddeviceCli.disconnect()

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