Sprint-3

Date	14thNovember2022
Team ID	PNT2022TMID35067
Project Name	Signs with Smart Connectivity for Better Road Safety.
Marks	20Marks

Sprint	Functional Requirem ent	User Story Number	User Story /Task	Story Points	Priori ty	Team Members
Sprint-3		US-1	Develop a python script to publish random sensordata such as temperature, humidity, visibility to the IBM IoT platform.	7	High	R. Abisha A. Anugraha R. Angel L. Brijitha
Sprint-3		US-2	After developing python code, commands are received print the statements which represent the control of the devices.	5	Mediu m	R. Abisha A. Anugraha R. Angel L. Brijitha
Sprint-3		US-3	Publish Data to the IBM Cloud.	8	High	R. Abisha A. Anugraha R. Angel L. Brijitha

import sys
import ibmiotf.application
import ibmiotf.device
import random
#ProvideyourIBMWatsonDeviceCredentials
organization="ozyf7e"
deviceType="iotdevice"
deviceId="iotdeviceid"
authMethod="use-token-auth"
authToken="9876543210"

```
#IntializeGPIO
def myCommandCallback(cmd):
  print("Commandreceived:%s%cmd.data['command']")
  status=cmd.data['command']
  if status=="lighton":
    print("ledison")
  elif status=="light off":
    print("ledisoff")
  else:
    print("send proper command")
#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("Caughtexceptionconnectingdevice:%s"%str(e))
  sys.exit()
#Connectandsendadatapoint"hello"withvalue"world"intothecloudasaneventof type "greeting"
10 times
deviceCli.connect()
while True:
  temp=random.randint(90,100)
  humid=random.randint(60,100)
  data={"temperature":temp,"humidity":humid}
#printdata
def myOnPublishCallback():
  print("Publishedtemperature=%sC"%temp,"humidity=%s%%"%humid,"toIBMWatson")
  success=deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublish
Callback)
if not success:
  print("NotconnectedtoIoTF")
  time.sleep(1)
deviceCli.commandCallback=myCommandCallback
#Disconnect thedeviceandapplication from the cloud
deviceCli.disconnect()
```

Output:

