

## Delivery Phase

### Sprint 1

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Project	Project – IoT Based Safety Gadget For Child Safety Monitoring & Notification

### Creating Python Code:

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

#Provide your IBM Watson Device Credentials
organization = "j8b4af"
deviceType = "ALAS"
deviceId = "123456"
authMethod = "use-token-auth"
authToken = "12345678"
#api key {a-illza1-mbdxqo6z0s} #api token {zSYzISuAWF&F_x7GkT}

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
print("power on ")
```

```

print("checking connection to waston iot...")
time.sleep(2)
deviceCli.connect()
print("dear user ... welcome to IBM-IOT ")
print("i can provide your children live location and temperature ")
print()
name=str(input("enter your child name:"))
while True:

    temperature=random.randint(20,50)
    #random temperature for your child
    latitude=random.uniform(10.781377,10.78643)
    #random latitude for your child
    longitude=random.uniform(79.129113,79.134014)
    #random longitude for your child a="Child inside the
    geofence" b=" Child outside the geofence"
    c="High temperature"
    d="Low temperature"
    x={'your_child_Zone':a}
    y={'your_child_Zone':b}
    z={'temp_condition':c}
    w={'temp_condition':d}

    data = { 'temp' : temperature, 'lat':
latitude,'lon':longitude,'name':name } #print data
def myOnPublishCallback():

    print ("Published Temperature = %s C" % temperature, "latitude = %s %"
% latitude, "longitude = %s %" % longitude, "to IBM Watson")
    print("\n")
    success = deviceCli.publishEvent("IoTSensorgpsdata", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if latitude>=10.78200 and latitude<=10.786000 and longitude >=79.130000
and longitude<=79.133000:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=x,qos=0,on_publish=
m yOnPublishCallback)

    print(x) print("\n")
else:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=y,qos=0,on_publish=
m yOnPublishCallback)

```

```

print(y) print("\n")

if (temperature>35):

deviceCli.publishEvent("IoTSensorgpsdata","json",data=z,qos=0,on_publish=
m_yOnPublishCallback)

print(c) print("\n")
else:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on_publish=
m_yOnPublishCallback)

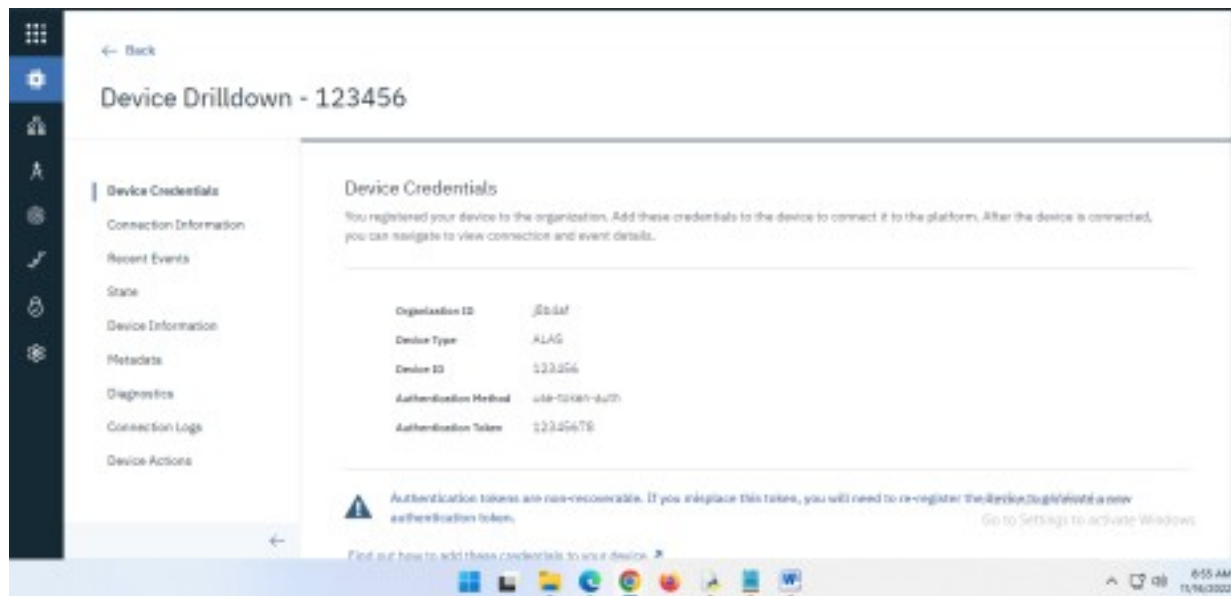
print(d)

print("\n")

if not success:
print("Not connected to IoT") print("\n")
time.sleep(3)
# Disconnect the device and application from the cloud
deviceCli.disconnect()

```

## Screen Shots



```
File: /Users/julius/Desktop/IBM-Or/monitorsendend.py [1.7.4]
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help

check wheather your child is Inside the geofence or Outside geofence
#For
ocpy
dev
ent
aut
#ap
#ap

check wheather your child is Inside the geofence or Outside geofence

('your_child_posn': 'Outside the geofence')
('temp_status': 'High temperature')
Published Temperature = 45 C Latitude = 12.130 longitude = 78.198 to IBM Watson

check wheather your child is Inside the geofence or Outside geofence

('your_child_posn': 'Outside the geofence')
('temp_status': 'High temperature')
Published Temperature = 39 C Latitude = 12.131 longitude = 78.198 to IBM Watson

# C
pri
pri
time
dev
pri
pri
pri
pri
name
wri

check wheather your child is Inside the geofence or Outside geofence
('your_child_posn': 'Inside the geofence')
('temp_status': 'High temperature')

-Method": authMethod, "auth-token": authToken)

type "greeting" 10 times

# End of File
```

Thank You .