Delivery Phase

Sprint 1

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

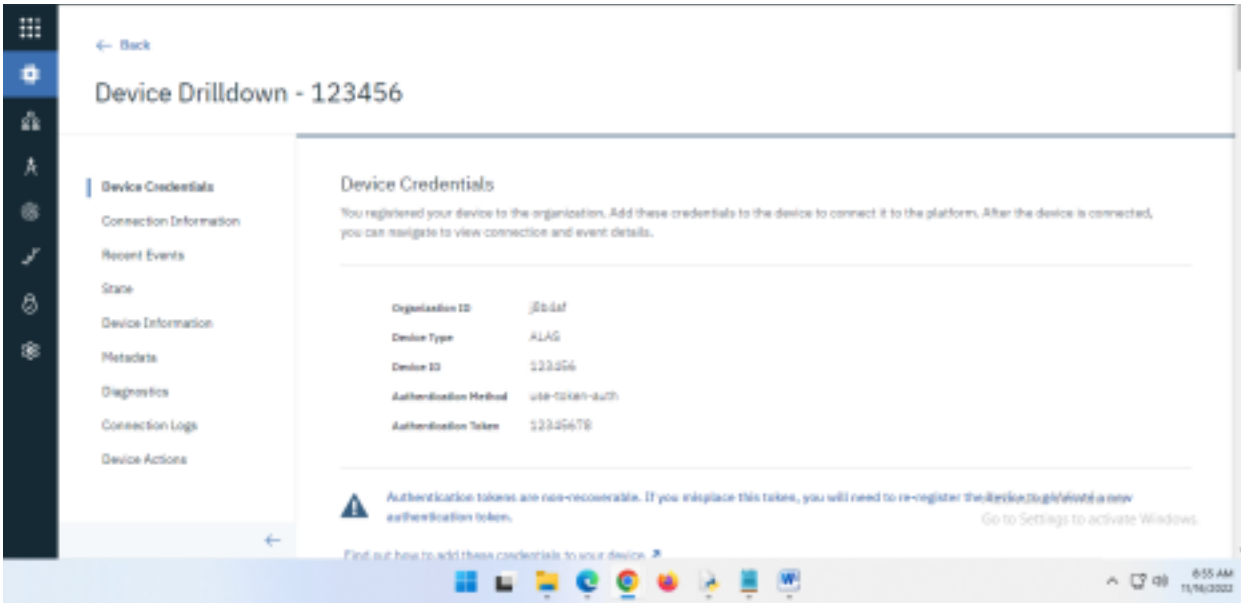
Creating Python Code:

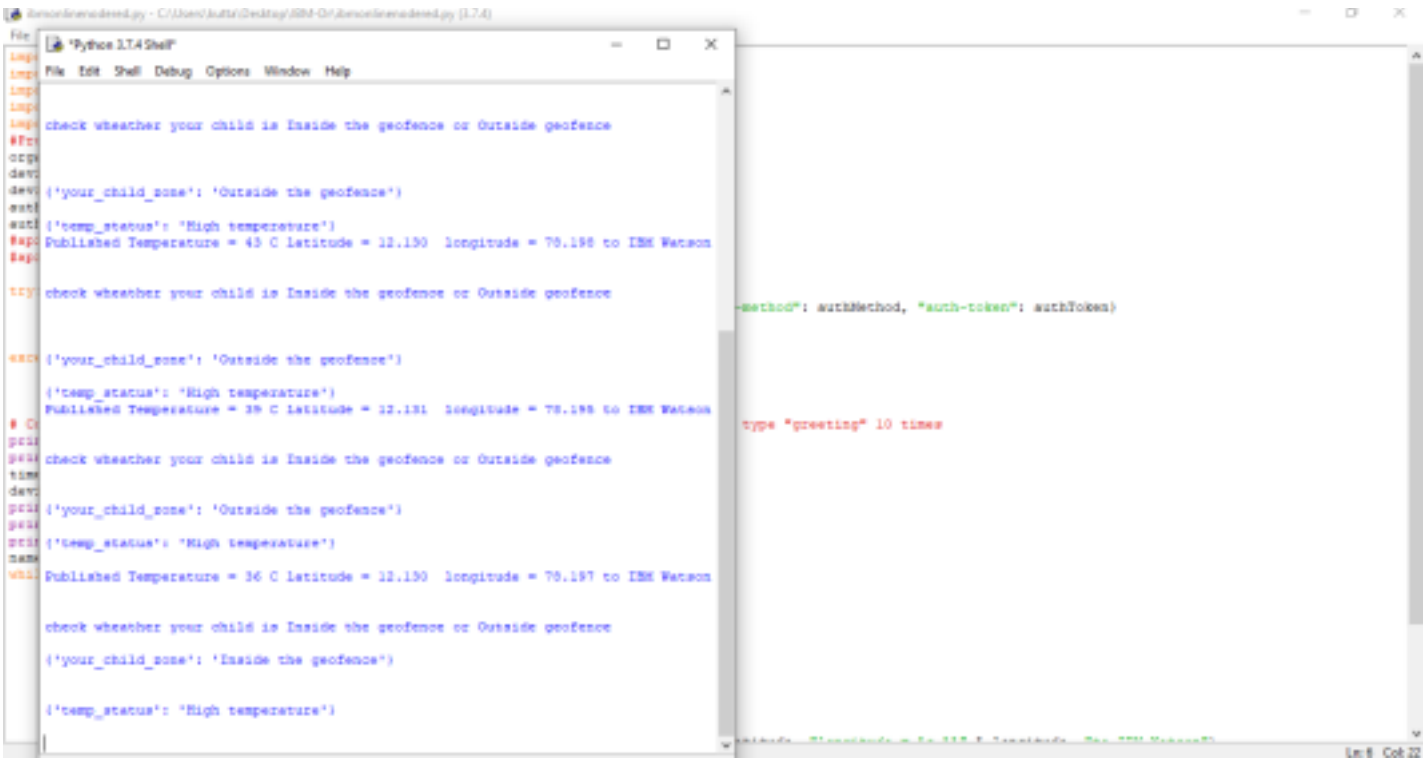
```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "j8b4af"
deviceType = "ALAS"
deviceId = "123456"
authMethod = "use-token-auth"
authToken = "12345678"
#api key {a-illza1-mbdxqo6z0s} #api token {zSYzISuAWF&F_x7GkT}


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 IoTF") print("\n")
 time.sleep(3)
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

Screen Shots




'Python 3.7.4 Shell'
File Edit Shell Debug Options Window Help
check wheather your child is Inside the geofence or Outside geofence
{'your_child_zone': 'Outside the geofence'}
{'temp_status': 'High temperature'}
Published Temperature = 43 C latitude = 12.130 longitude = 78.198 to IBM Watson
check wheather your child is Inside the geofence or Outside geofence
{'your_child_zone': 'Outside the geofence'}
{'temp_status': 'High temperature'}
Published Temperature = 39 C latitude = 12.131 longitude = 78.198 to IBM Watson
check wheather your child is Inside the geofence or Outside geofence
{'your_child_zone': 'Outside the geofence'}
{'temp_status': 'High temperature'}
Published Temperature = 36 C latitude = 12.130 longitude = 78.197 to IBM Watson
check wheather your child is Inside the geofence or Outside geofence
{'your_child_zone': 'Inside the geofence'}
{'temp_status': 'High temperature'}
-method": authMethod, "auth-token": authToken)
type "greeting" 10 times
Ln: 8 Col: 22

Thank You .