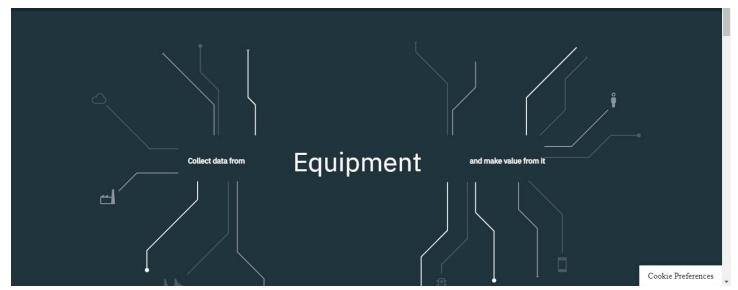
TITLE	IOT based child safety gadget for child safety monitoring and notification
TEAM ID	PNT2022TMID17111
SUBMISSION DATE	11 November 2022

Creating IBM Cloud Service and creating the device:



```
Creating Python Code:
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device
Credentials organization = "zwx6lb"
deviceType = "ABCD" deviceId = "13"
authMethod = "token" authToken =
"12345678"
#api key {a-illza1-mbdxqo6z0s}
#api token {zSYzISuAWF&F x7GkT}
      deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":
try:
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:
```

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

```
"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=myOnPublishCallb
ack)
      print(x)
print("\n")
               else:
deviceCli.publishEvent("IoTSensorgpsdata", "json", data=y, qos=0, on_publish=myOnPublishCallb
ack)
      print(y)
print("\n")
    if (temperature>35):
deviceCli.publishEvent("IoTSensorgpsdata", "json", data=z, qos=0, on_publish=myOnPublishCallb
ack)
        print(c)
print("\n")
               else:
deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on_publish=myOnPublishCall
back)
        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()

Connecting IBM Watson and python Code:

