

**GOVERNMENT COLLEGE OF ENGINEERING  
BODINAYAKKANUR, THENI**

**Safety Gadget for Child Safety Monitoring and  
Notification**

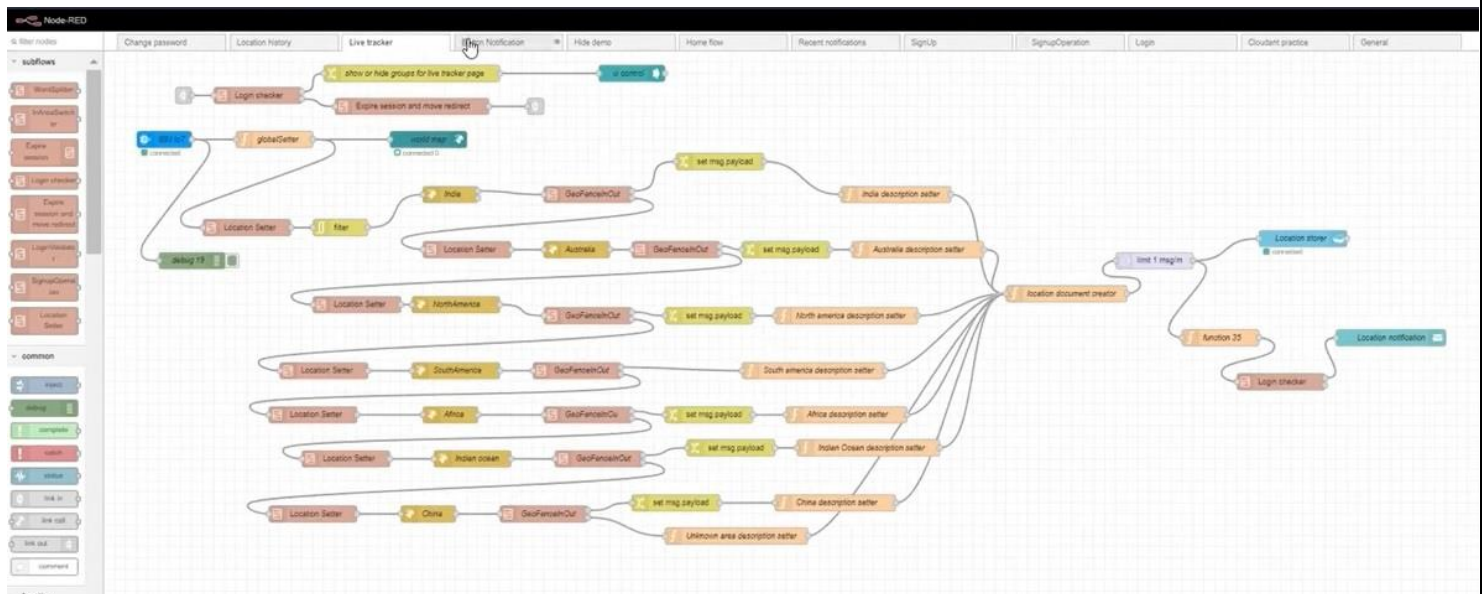
**IBM NALAIYATHIRAN**

**Project Development –Delivery of Sprint 2**

**Creating Node –Red service and connect with IBM cloud and Web UI**

<b>TITLE</b>	IOT based child safety gadget for child safety monitoring and notification
<b>DOMAIN NAME</b>	INTERNET OF THINGS
<b>TEAM ID</b>	PNT2022TMID49428
<b>TEAM LEADERNAME</b>	PRIYADHARSINI S
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## Creating Node-Red service:



## Connecting with IBM Cloud:

### Using IBM IOT node through API key

IBM Watson IoT Platform

Browse IBM Cloud Apps

ID: zwx6lb

### The API key has been added.

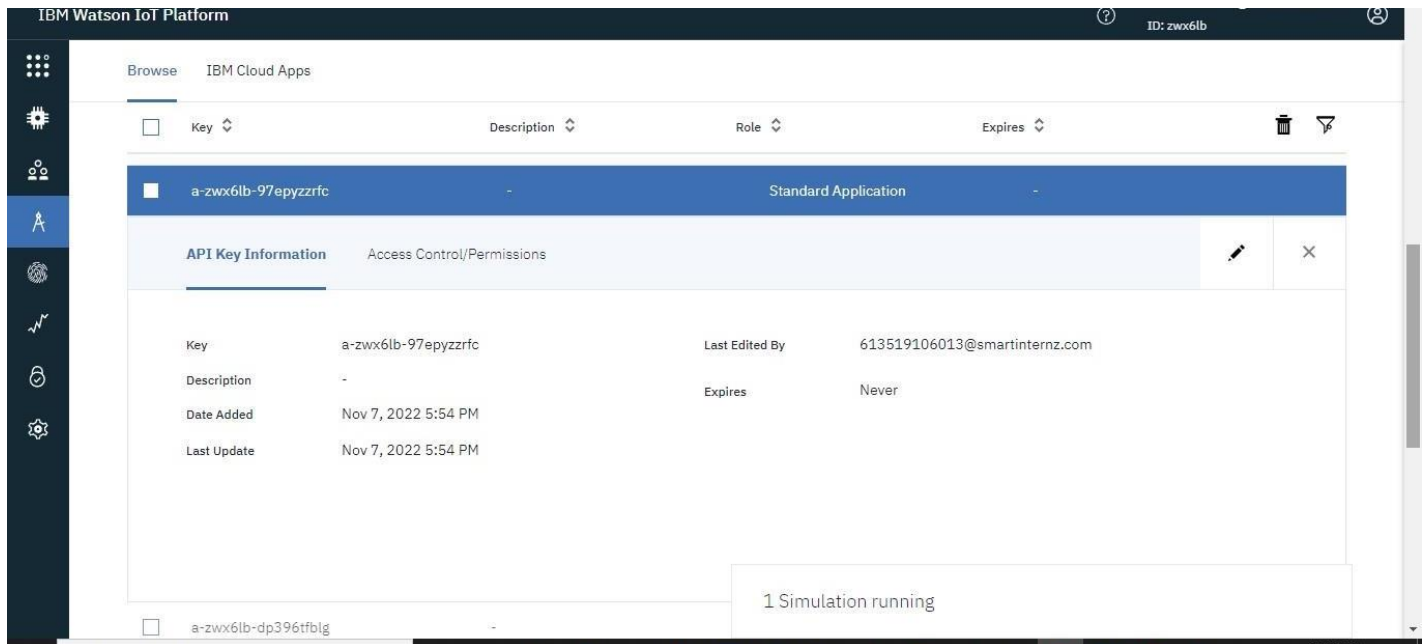
Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the API key to generate a new authentication token.

Generated Details		API Key Information	
API Key	a-zwx6lb-z7sryerler	Description	-
Authentication Token	dO&H(qcUv)icaFOYcb	Role	Standard Application
		Expires	Never

**Warning:** Make a note of the generated authentication token. Lost authentication tokens cannot be recovered. If you lose the token, you must reregister the API to generate a new token.

1 Simulation running

10:07 PM



## Transferring values from Python Code:

Child Safety device.py - C:/Users/kutta/Desktop/IBM-Dr/Child Safety device.py (3.7.4)
File Edit Format Run Options Window Help

```

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

#Provide your IBM Watson Device Credentials
organization = "illzai"
deviceType = "latlonitem"
deviceId = "613510"
authMethod = "token"
authToken = "1092837465"
#api key (a-illzai-mbdxqo6z0s)
#api token (zSYz1SuAWF&F_x7GKT)

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod}
    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
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 ")
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

    data = { 'temp': temperature, 'lat': latitude, 'lon':longitude, 'name':name }
    #print data
    def myOnPublishCallback():
        print("Published Temperature = %s C latitude = %s longitude = %s" % (temperature, latitude, longitude))

```

Python 3.7.4 Shell
File Edit Shell Debug Options Window Help

```

Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64-bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/kutta/Desktop/IBM-Dr/Child Safety device.py =====
power on
checking connection to waston iot...
2022-11-10 22:14:21,799 ibmiotf.device.Client INFO Connected successfully: d:illzai:l:latlonitem:613510
dear user ... welcome to IBM-IOT
i can provide your children live location and temperature

enter your child name:child
Published Temperature = 39 C latitude = 10.782749628132827 % longitude = 79.867253162 % to IBM Watson
Published Temperature = 39 C latitude = 10.782669248109656 % longitude = 79.1255540076 % to IBM Watson
Published Temperature = 43 C latitude = 10.781765104656792 % longitude = 79.077864707 % to IBM Watson
Published Temperature = 30 C latitude = 10.786083936690018 % longitude = 79.2366715787 % to IBM Watson
Published Temperature = 31 C latitude = 10.784810558975826 % longitude = 79.0117359415 % to IBM Watson
Published Temperature = 45 C latitude = 10.785949922923024 % longitude = 79.5563867668 % to IBM Watson
Published Temperature = 24 C latitude = 10.784168891438233 % longitude = 79.9528906442 % to IBM Watson
Published Temperature = 23 C latitude = 10.786248060883958 % longitude = 79.4368596464 % to IBM Watson
Published Temperature = 27 C latitude = 10.783808327214418 % longitude = 79.951933729 % to IBM Watson
Published Temperature = 43 C latitude = 10.786340416981865 % longitude = 79.7748803969 % to IBM Watson
Published Temperature = 49 C latitude = 10.786208956579015 % longitude = 79.2192551409 % to IBM Watson
Published Temperature = 45 C latitude = 10.783690544907325 % longitude = 79.504415061 % to IBM Watson

```

## Node-Red:

# Node-Red Dashboard:

