

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

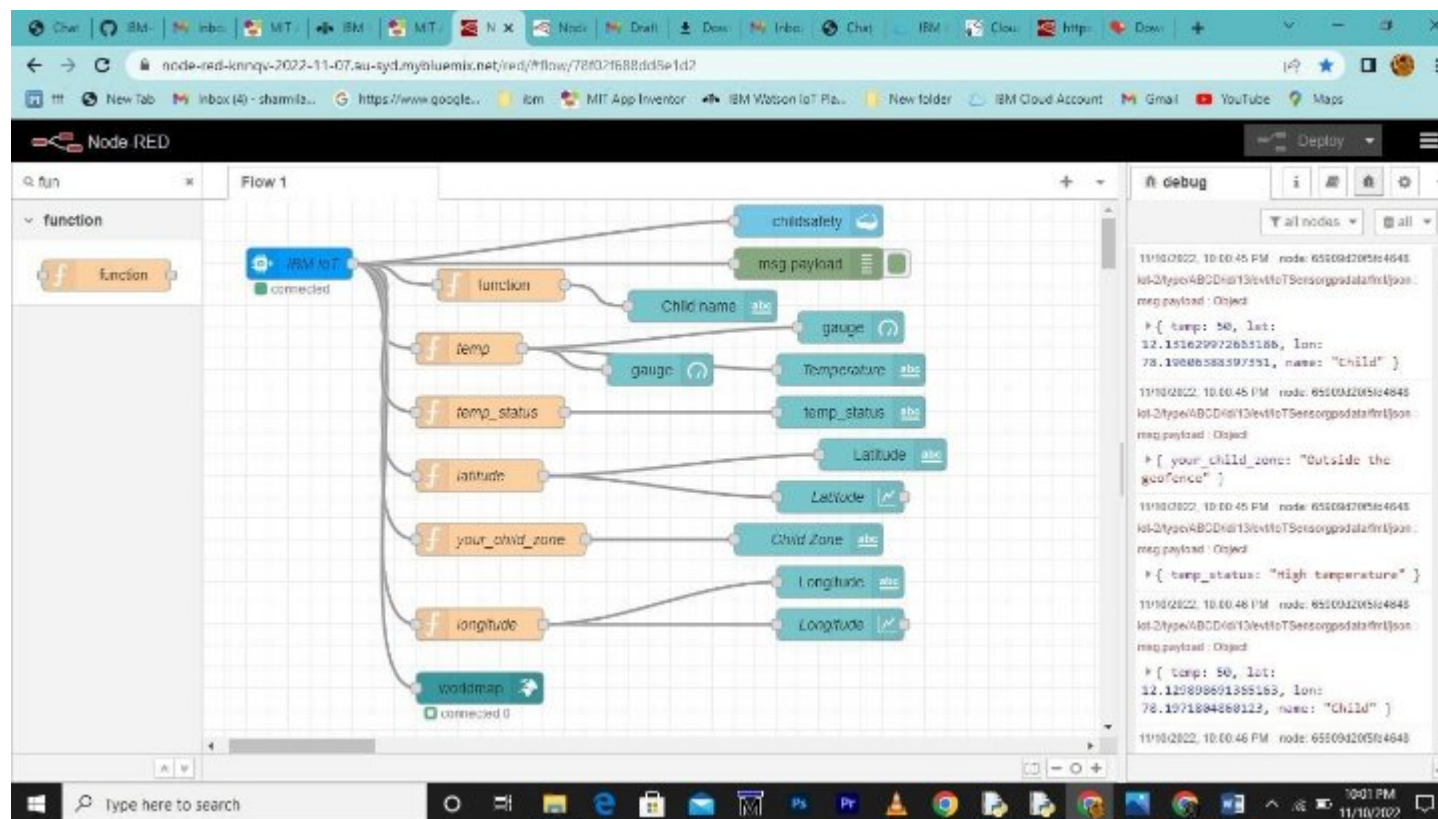
**IBM NALAIYATHIRAN**

## **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 safe monitoring and notification
	<b>DOMAIN NAME</b>	INTERNET OF THINGS
	<b>TEAM ID</b>	PNT2022TMID52022
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## Creating Node-Red service:





The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar shows the user is logged in as '613519106013@smarterintzm.com' with the email 'ID: zwx5lb'. The main content area features a large green message box stating 'The API key has been added.' and providing instructions on authentication tokens. Below this, there are two sections: 'Generated Details' and 'API Key Information'. The 'Generated Details' section contains a table with the following data:

API Key	Authentication Token
a-zwx5lb-z7aryarier	d0&H(qcJv)lcaFOYch

The 'API Key Information' section contains a table with the following data:

Description	Role	Expires
	Standard Application	Never

Below the tables, a warning icon and text state: '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.'

At the bottom of the dashboard, a status bar indicates '1 Simulation running'.

The screenshot displays the IBM Watson IoT Platform interface. The main heading is "Browse API Keys". Below the heading, a table lists the API keys. The table has columns for Key, Description, Role, and Expires. There is one entry in the table:

Key	Description	Role	Expires
a-hrsq7i-kmzwfgye7	Bound to Bluemix Application	Standard Application	-

Below the table, there is a section for "API Key Information" and "Access Control/Permissions". The "API Key Information" section shows the following details:

Key	a-hrsq7i-kmzwfgye7	Last Edited By	-
Description	Bound to Bluemix Application	Expires	Never
Date Added	Nov 10, 2022 8:18 PM		
Last Update	Nov 10, 2022 8:18 PM		

## Transferring values from Python Code:

Child Safety device.py - C:\Users\kutta\Desktop\IBM-Dx\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 = "allzal"
deviceType = "latlonstem"
deviceId = "613510"
authMethod = "token"
authToken = "1692037465"
#api key (e-allzal-nbdsq0680u)
#api token (x5YxISuMF47_w7GkTl)

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":
    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 watson 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(79.129118,79.133010)#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" % (data['temp'], data['lat'], data['lon']))
```

Python 3.7.4 Shell

File Edit Shell Debug Options Window Help

Python 3.7.4 (tags/v3.7.4:09359112e, Jul 8 2019, 20:34:12) [MSC v.1914 64-bit] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/kutta/Desktop/IBM-Dx/Child Safety device.py =====

power on

checking connection to watson iot...

2022-11-10 22:14:21.799 allzal.device.Client INFO Connected to Watson IoT

llly: drillzal:latlonstem: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 = 79.129118

567203162 & to IBM Watson

Published Temperature = 39 C latitude = 10.782669248109656 & longitude = 79.129118

1255540076 & to IBM Watson

Published Temperature = 43 C latitude = 10.781765104656792 & longitude = 79.129118

077824707 & to IBM Watson

Published Temperature = 30 C latitude = 10.786083936690018 & longitude = 79.129118

2366715787 & to IBM Watson

Published Temperature = 31 C latitude = 10.784810588978826 & longitude = 79.129118

0117359415 & to IBM Watson

Published Temperature = 46 C latitude = 10.785949922923024 & longitude = 79.129118

5563867668 & to IBM Watson

Published Temperature = 24 C latitude = 10.784160891438233 & longitude = 79.129118

9528906442 & to IBM Watson

Published Temperature = 23 C latitude = 10.78624006083950 & longitude = 79.129118

436839644 & to IBM Watson

Published Temperature = 27 C latitude = 10.783808327214410 & longitude = 79.129118

951933729 & to IBM Watson

Published Temperature = 43 C latitude = 10.786340416901865 & longitude = 79.129118

7768803969 & to IBM Watson

Published Temperature = 49 C latitude = 10.786200856575015 & longitude = 79.129118

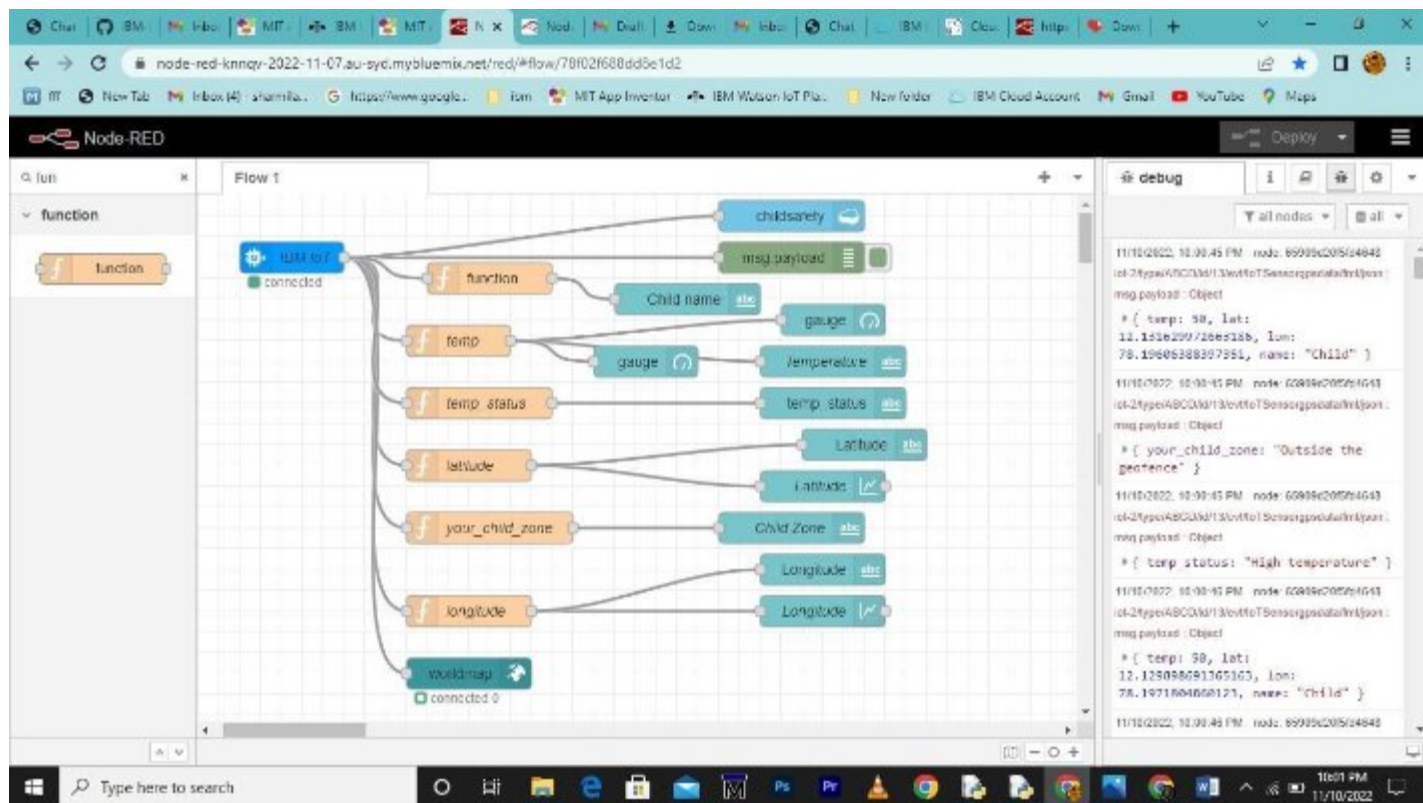
2192551409 & to IBM Watson

Published Temperature = 45 C latitude = 10.783490544907325 & longitude = 79.129118

504415061 & to IBM Watson

## Node-Red:





## Node-Red Dashboard:


node-red-knnqv-2022-11-07.au-syd.mybluemix.net/ui/#/07socketid=lmRYLqZvj0d81mzAAGr

Home

home

Child name	Child
Temperature	106
temp_status	Low temperature

gauge




106

Type here to search

10:17 PM 11/10/2022

node-red-knnqv-2022-11-07.au-syd.mybluemix.net/ui/#/27socketid=lmRYLqZvj0d81mzAAGr

map



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