

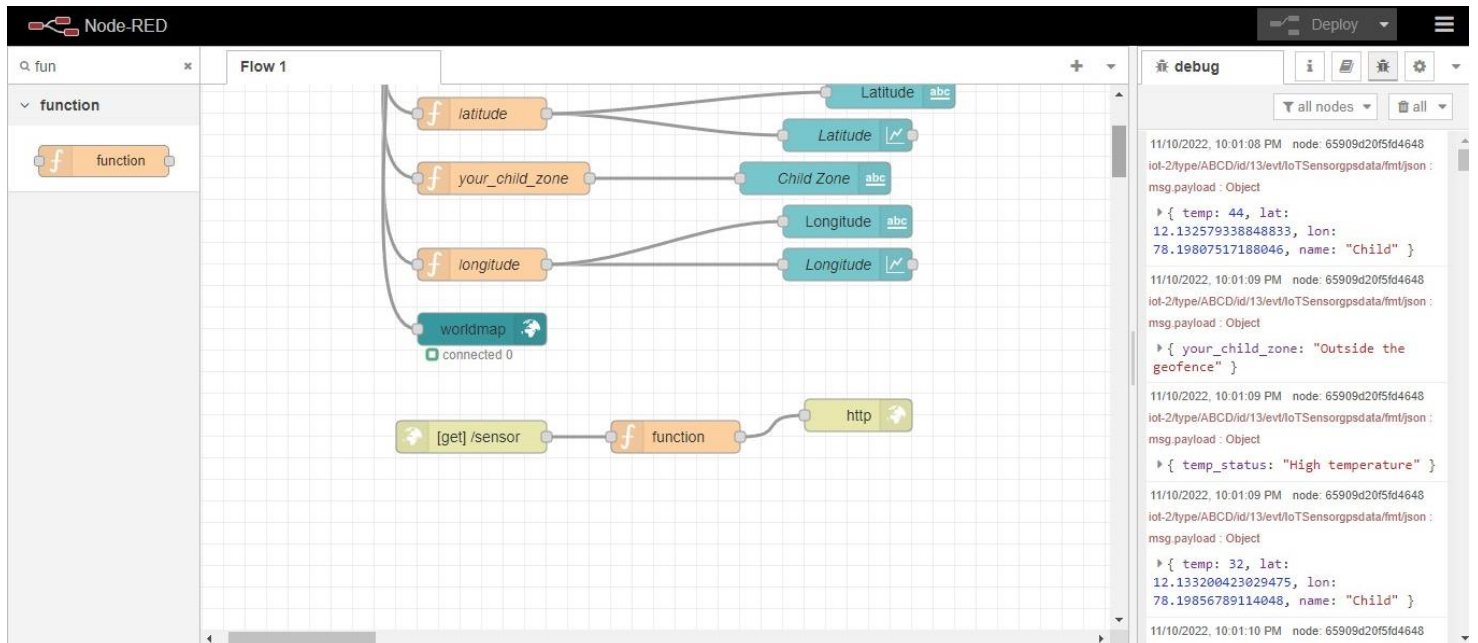
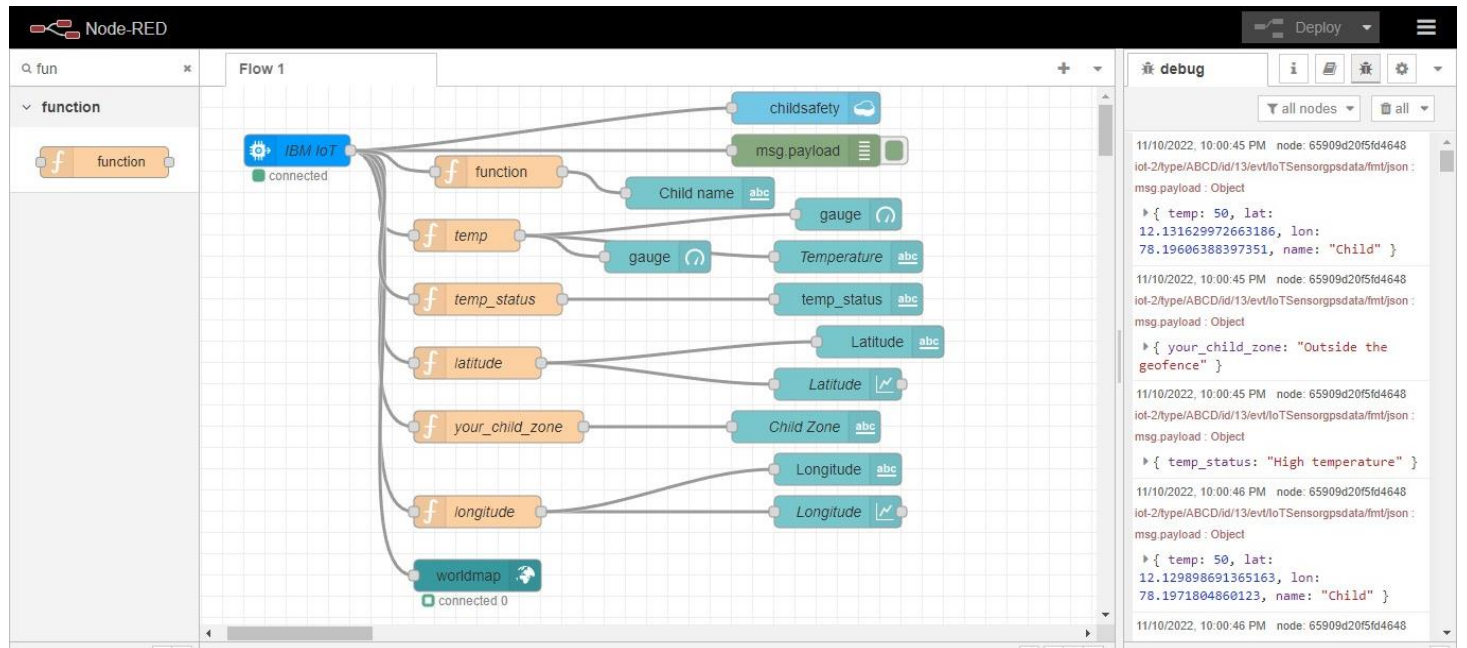
IOT Based Safety Gadget for Child Safety Monitoring and Notification

Project Development –Delivery of Sprint 1

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

TITLE	IOT based child safety gadget for child safety monitoring and notification
DOMAIN NAME	INTERNET OF THINGS
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Creating Node-Red service:



Connecting with IBM Cloud:

Using IBM IOT node through API key

Browse

IBM Cloud Apps

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

Authentication Token

dO&H(qcUv)icaFOYcb

Description

-

Role

Standard Application

Expires

Never

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

Browse

IBM Cloud Apps

Key

Description

Role

Expires

a-zwx6lb-97epyzzrfc

-

Standard Application

-

API Key Information

Access Control/Permissions

Key

a-zwx6lb-97epyzzrfc

Last Edited By

613519106013@smartinternz.com

Description

-

Expires

Never

Date Added

Nov 7, 2022 5:54 PM

Last Update

Nov 7, 2022 5:54 PM

1 Simulation running

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 = "illzal"
deviceType = "latlonem"
deviceId = "613510"
authMethod = "token"
authToken = "1092837465"
#api key {a-illzal-mbdxqo6z0s}
#api token {zSYzISuANF6F_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 ")
print()
name=input("enter your child name:")
while True:

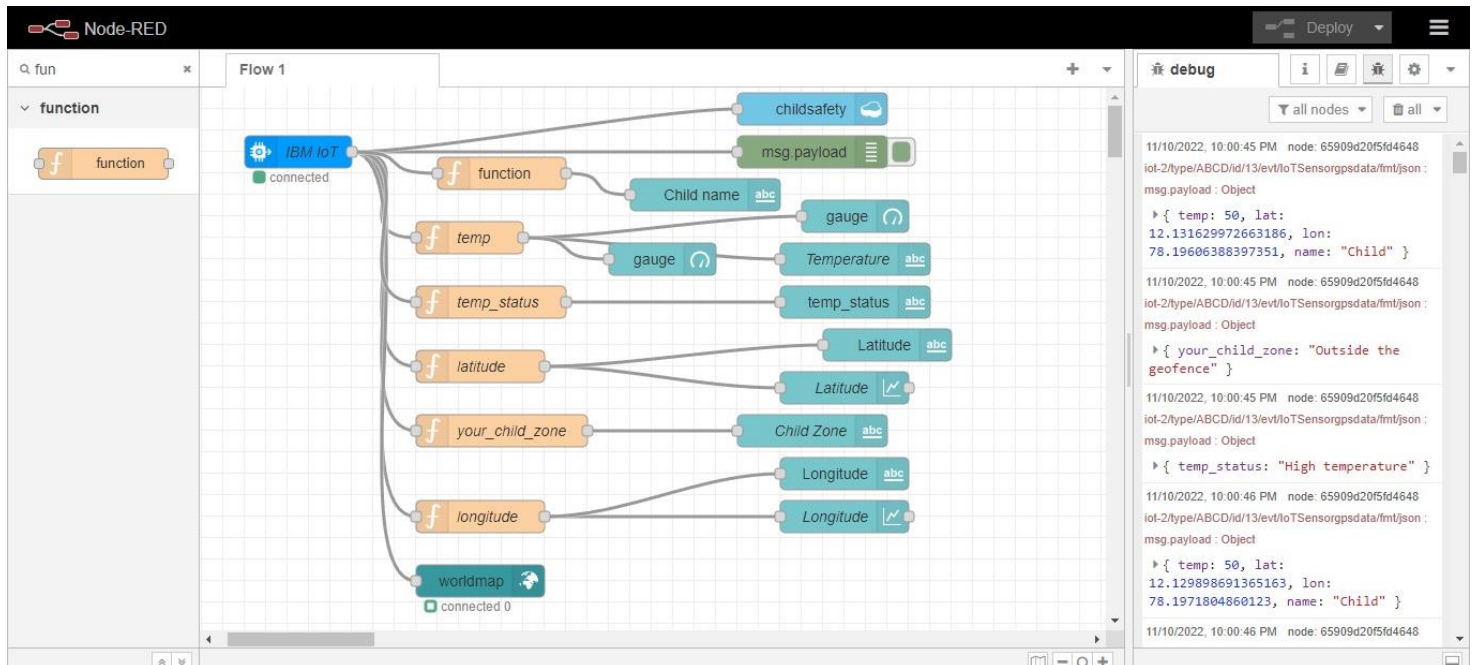
    temperature=random.randint(20,50)#random temperature for your child
    latitude=random.uniform(10.781377,10.78643)#random latitude for your child
    longitude=random.uniform(79.129113,79.134014)#random longitude for your child

    data = { 'temp' : temperature, 'lat': latitude, 'lon': longitude, 'name': name }
    #print data
    def myOnPublishCallback():
        #Printed Temperature = 50 C latitude = 12.13629972663186 longitude = 78.19606388397351

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 success
lly: d:illzal:latlonem: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 = 79.1867253162 & 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:

