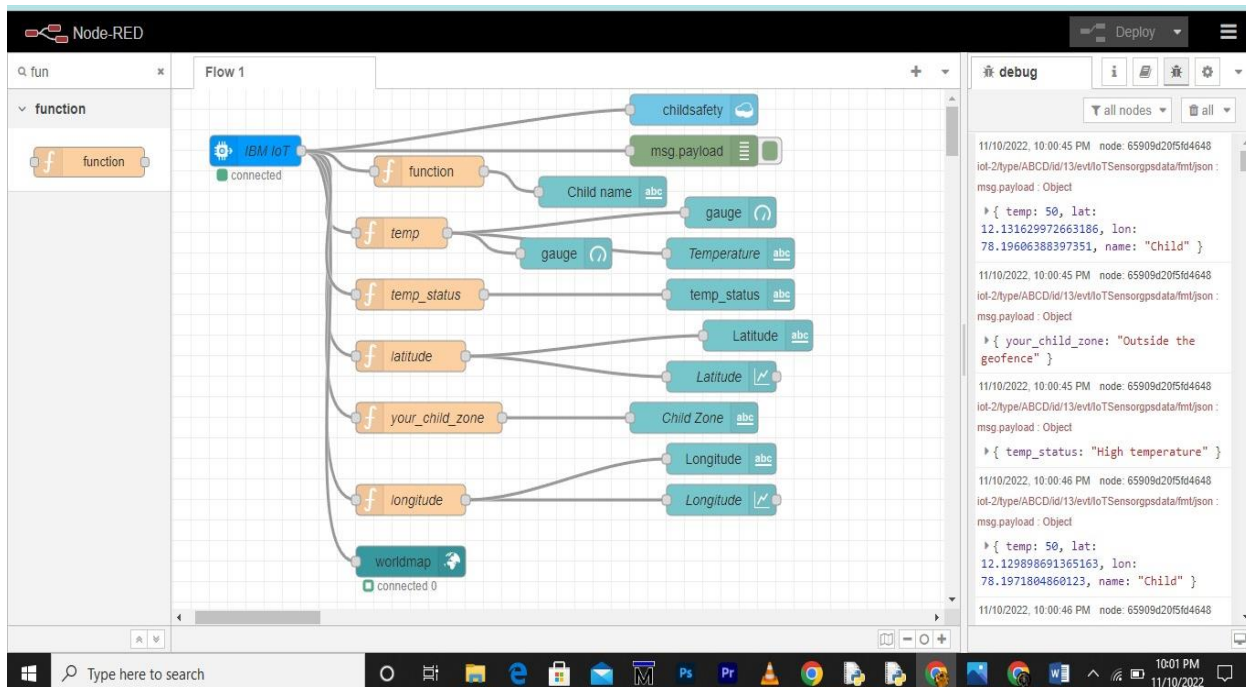


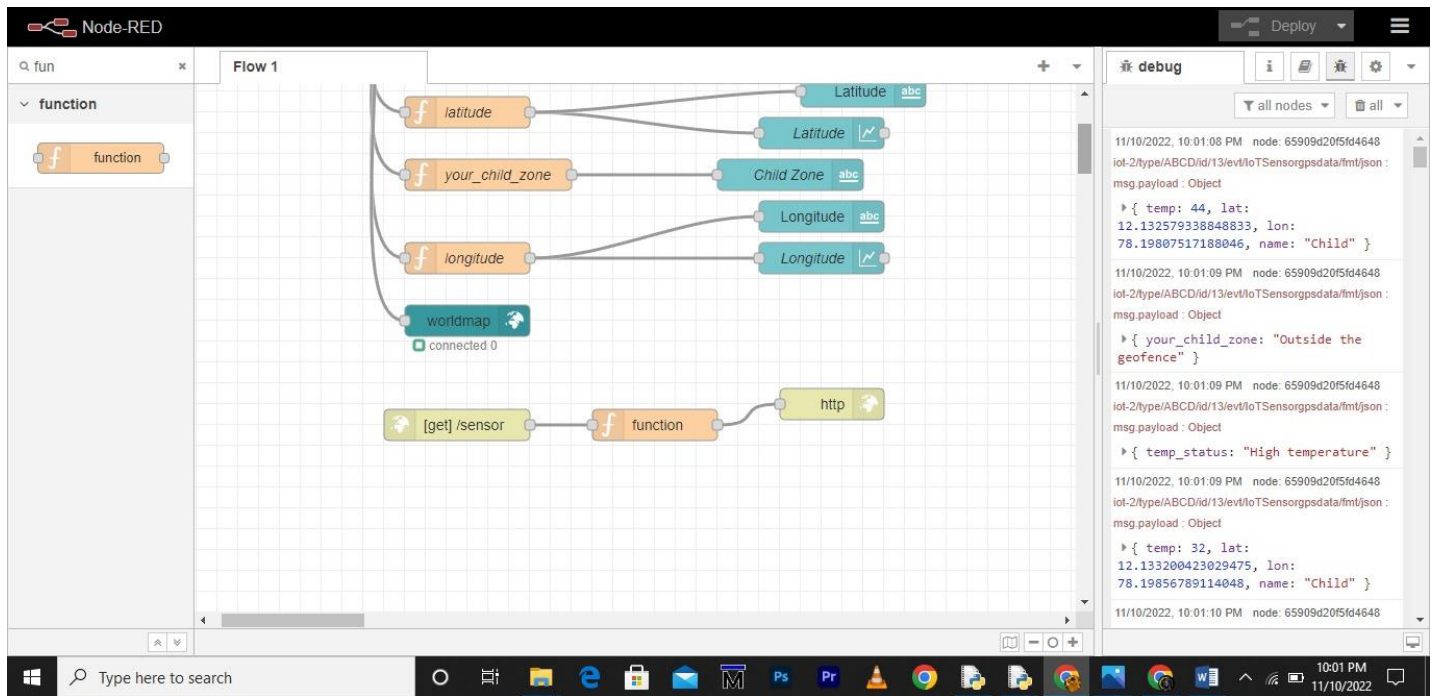
Delivery Phase

Sprint 2

Date	29 Oct 2022
Team Id	PNT2022TMID34780
Team Members	Lijish Wilson S (lead) Ashish A L Ajith B Akilan K Shan Pieo Wesley A
Project	Project – IoT Based Safety Gadget For Child Safety Monitoring & Notification

Creating Node-Red service:





Connecting with IBM Cloud: Using IBM IOT node through API key

The IBM Watson IoT Platform interface shows the 'API Key Information' page. The page displays the following details:

Generated Details		API Key Information	
API Key	a-zwx6lb-z7sryerler	Description	-
Authentication Token	dO&H(qcUv)icaFOYcb	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

IBM Watson IoT Platform

613519106013@smartinternz.com
ID: zwx6lb

Browse IBM Cloud Apps

Key Description Role Expires

a-zwx6lb-97epyzrfc Standard Application

API Key Information Access Control/Permissions

Key	a-zwx6lb-97epyzrfc	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

a-zwx6lb-dp396tftblg

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10:06 PM
11/10/2022

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 {zSYzISuAWFf_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 "power on"
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

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

Python 3.7.4 Shell

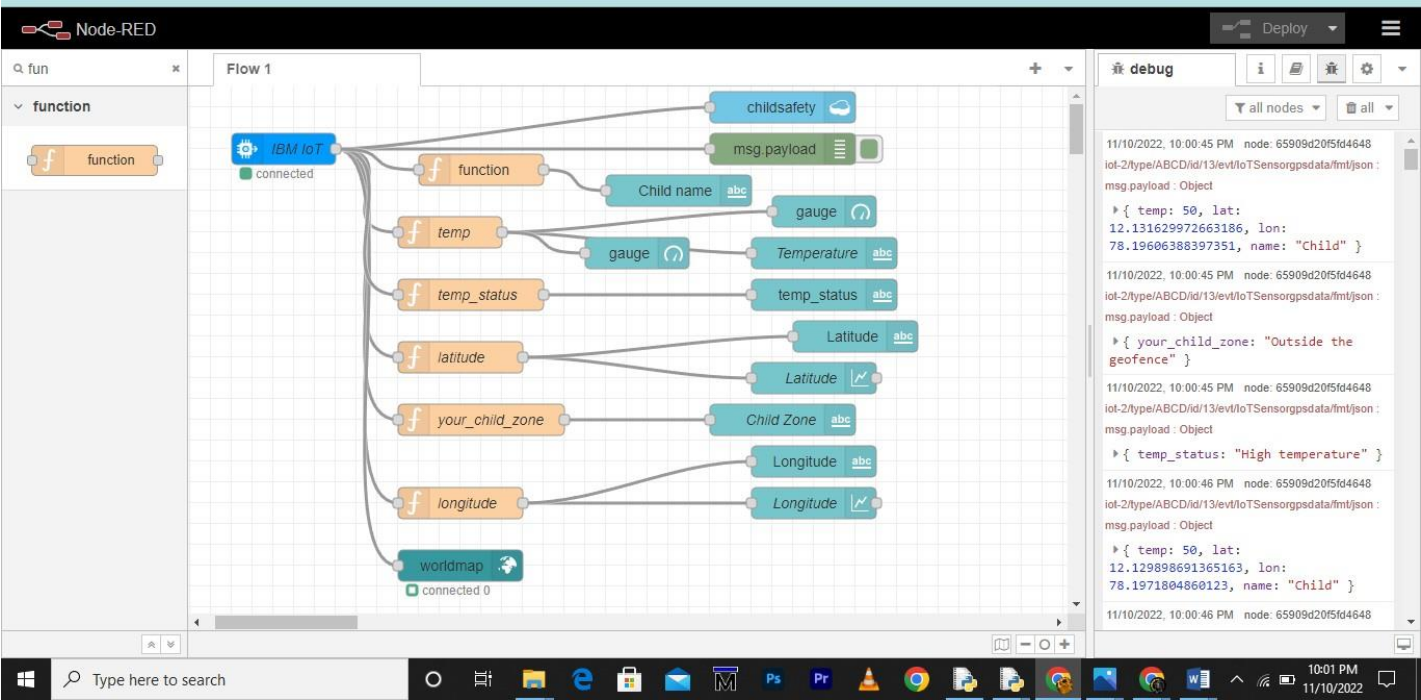
```
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64] (AMD64) on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/kutta/Desktop/IBM-Dr/Child Safety device.py =====
power on
checking 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 = 79.867253162 & 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 = 79.5563967668 & 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
```

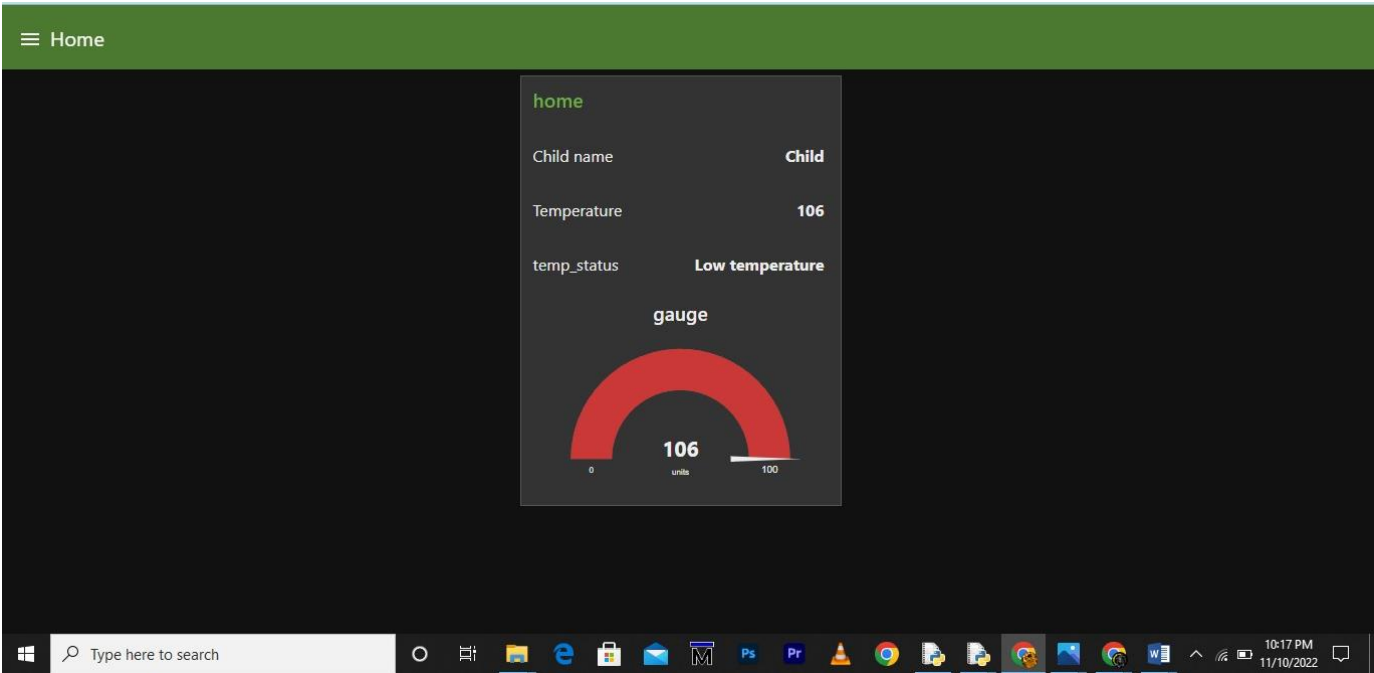
Ln: 1
Ln: 4 Col: 0

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Node Red:



Node-Red Dashboard:





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