

ASSIGNMENT 4

- Develop a mobile application that takes the user input and sends it to IoT device (python code). Print the received data in python shell. Keep a text box to accept the user input integrate a submit button. whenever user enters the text input in text box and clicks the button the data should be sent to IBM cloud using URL(HTTP API).

Python Code

```
import wiotp.sdk.device

import time

import random

myConfig = {

    "identity": {

        "orgId": "ihmmqz",

        "typeId": "MACDevice",

        "deviceId": "12345"

    },

    "auth": {

        "token": "12345678"

    }

}

def myCommandCallback(cmd):

    print("Message received from IBM IoT Platform: %s" %

cmd.data['command'])

    print()

client = wiotp.sdk.device.DeviceClient(config=myConfig,

logHandlers=None)

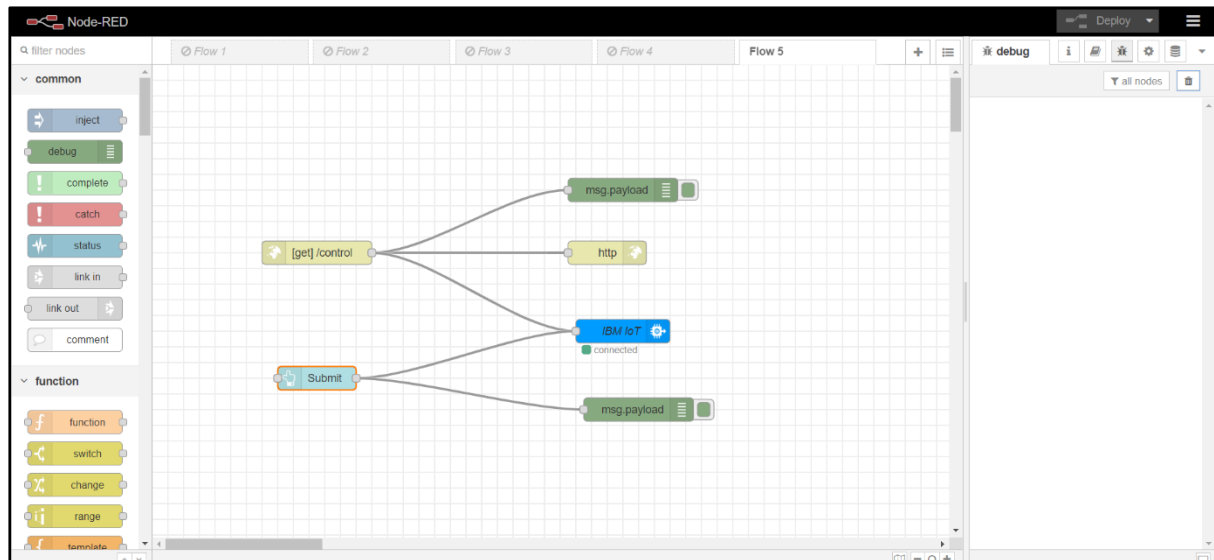
client.connect()
```

```

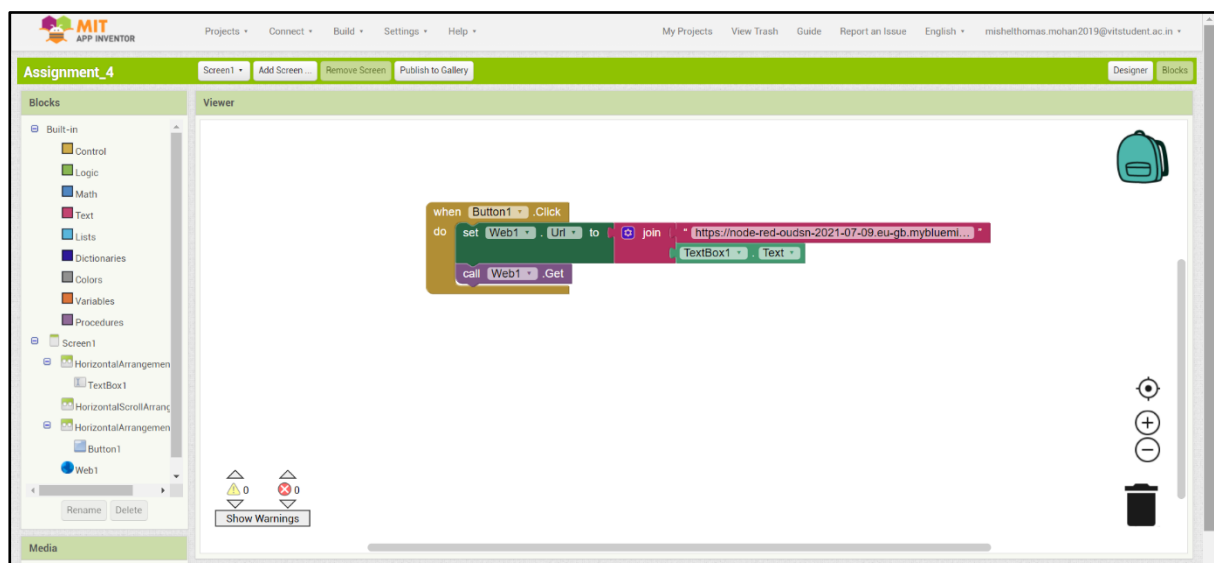
while True:
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()

```

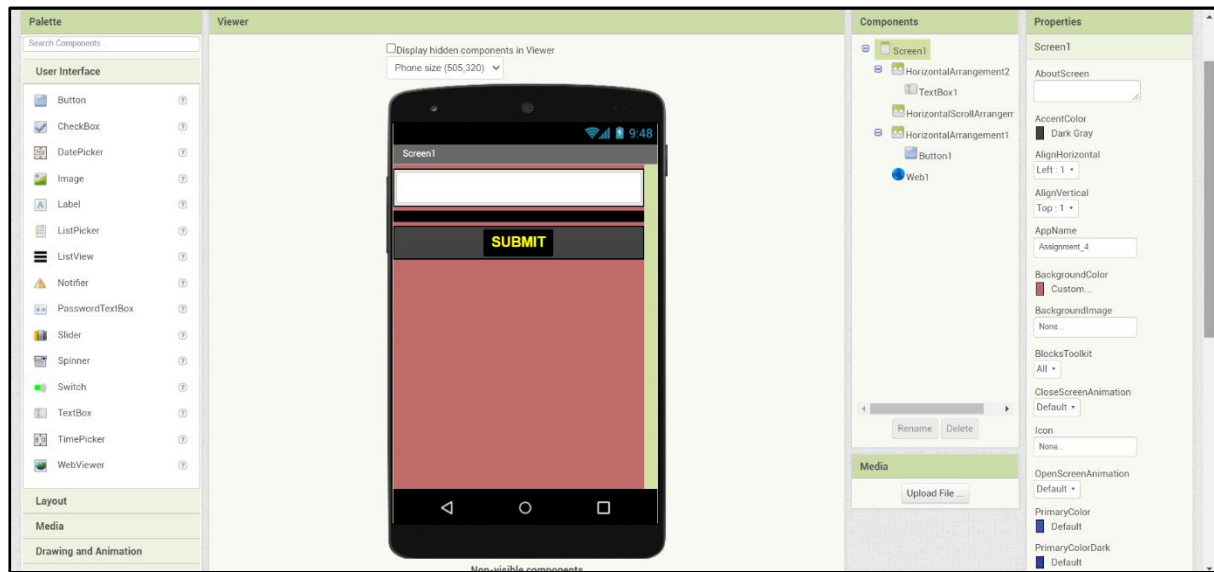
Node-red flow diagram



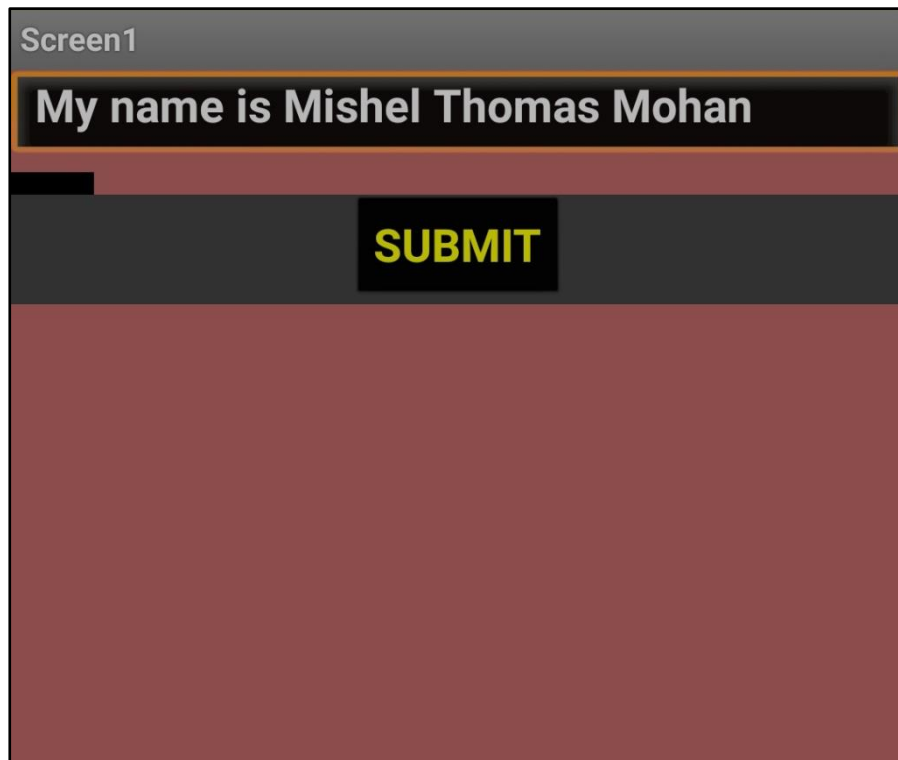
Block Diagram



Designer Window



Mobile Screenshot



Python Output



```
Python Shell 3.9.6
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\mishe\Desktop\4\code.py =====
2021-07-17 18:58:53,728 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:ihmmqz:MACDevice:12345
Message received from IBM IoT Platform: My name is Mishel Thomas Mohan
|
```