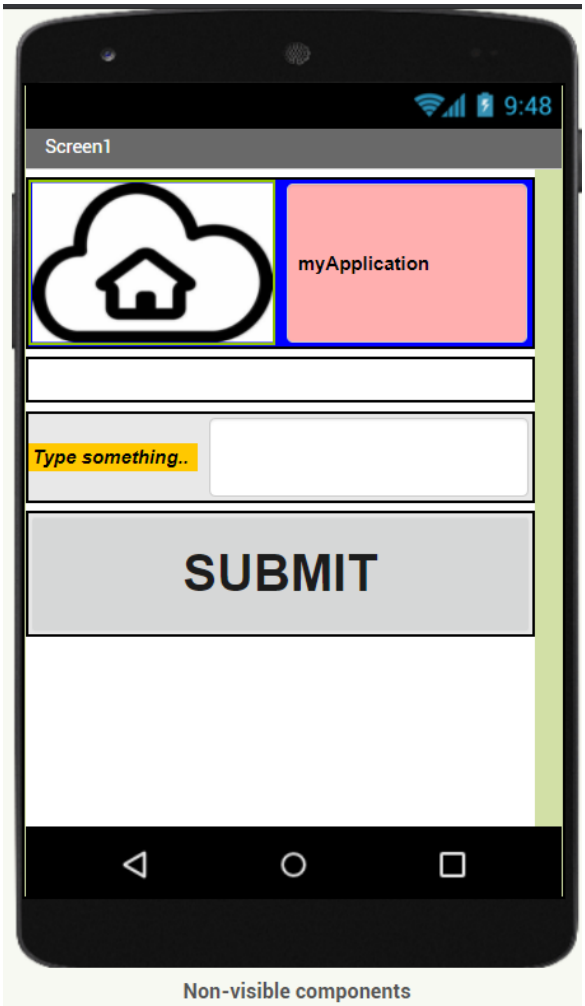
Assignment 4

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).

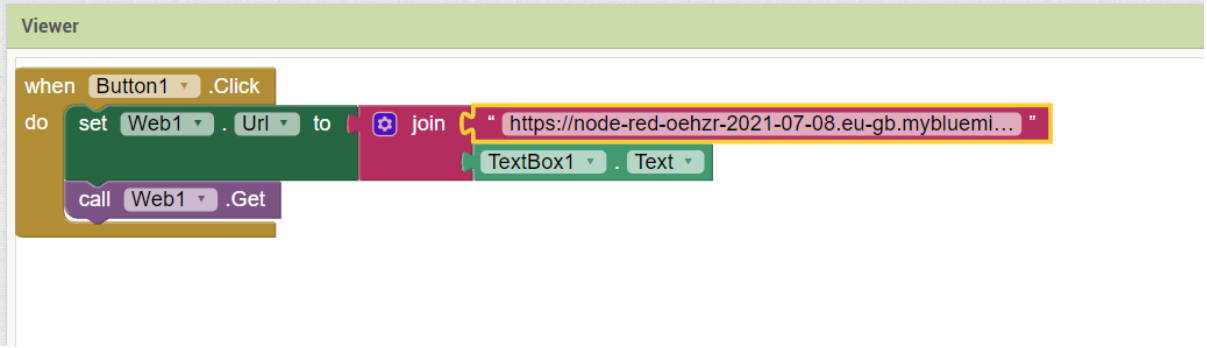
Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "hlj5ww",
        "typeId": "VIT_Device",
        "deviceId":"754984"
    },
    "auth": {
        "token": "7903051892"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    #m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

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

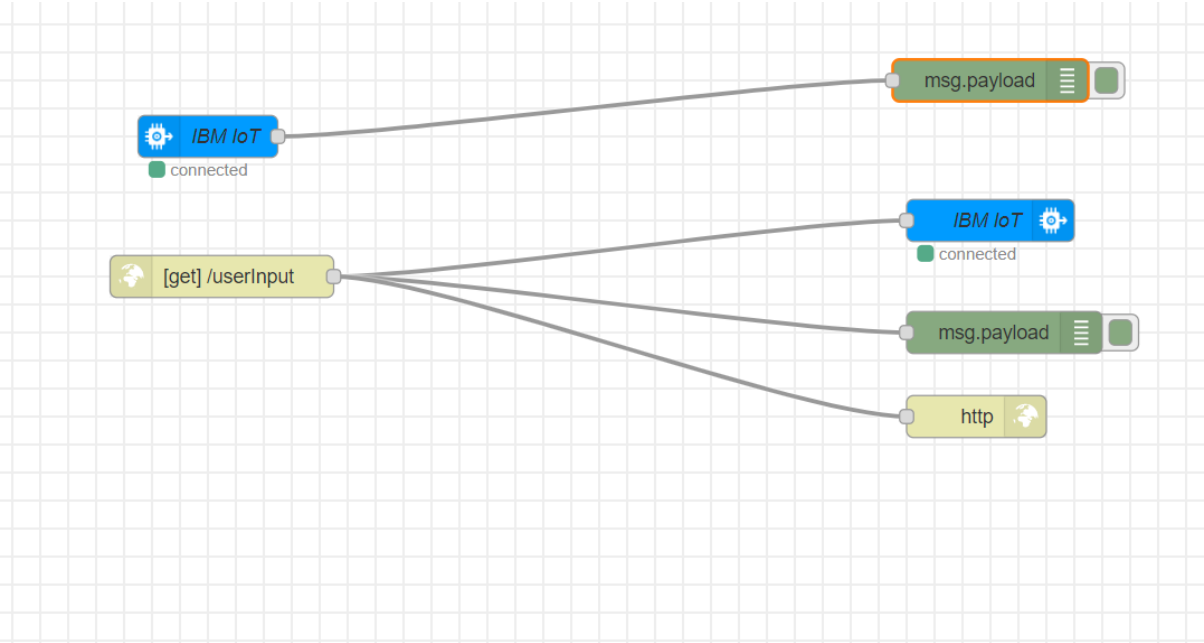
Application UI



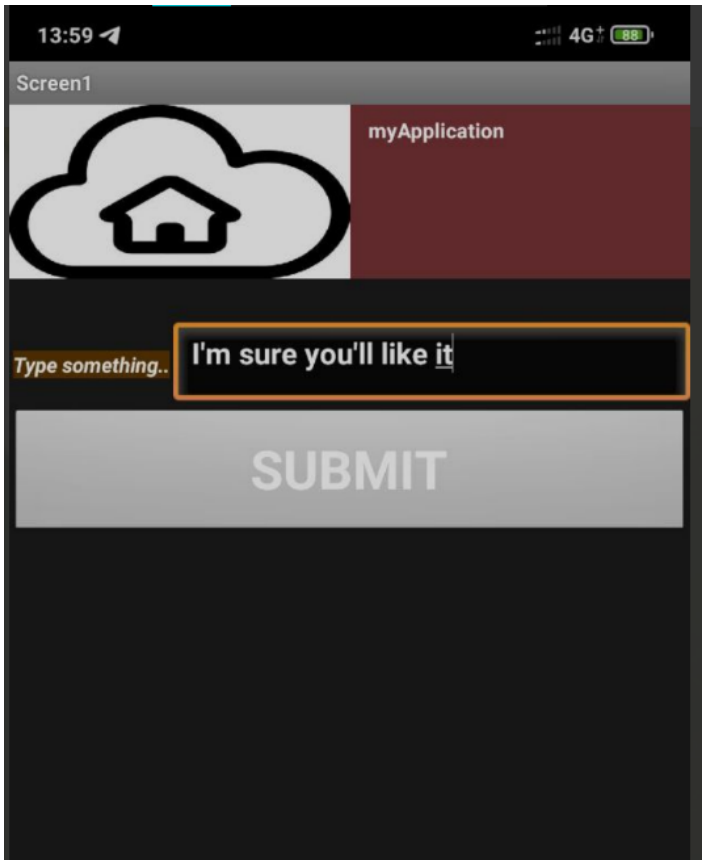
Blocks to function the above UI



Node-red Flow that connects the IBMIoT with the Application

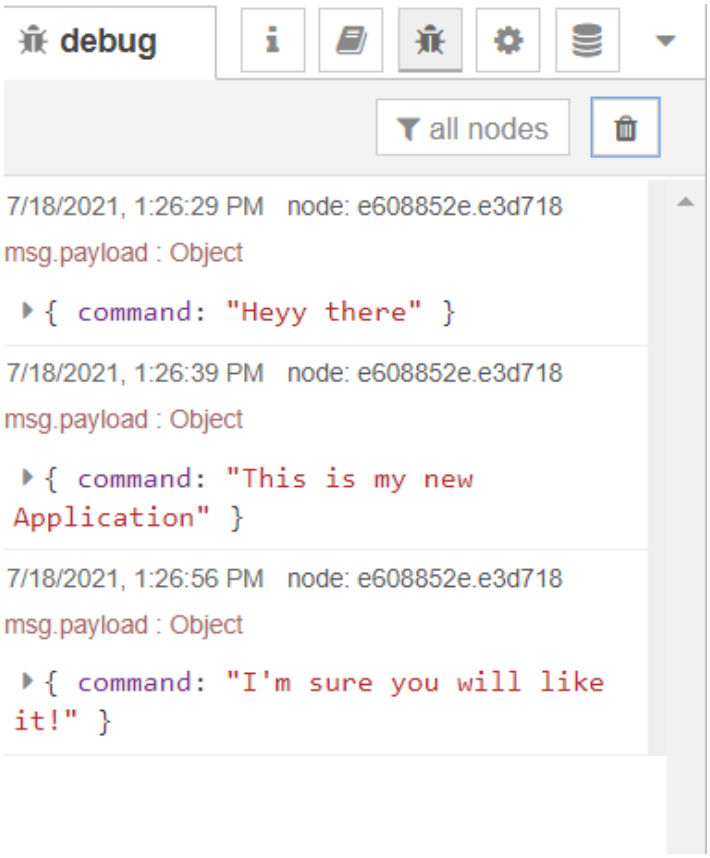


Input through the App



Outputs:

Node-red Debug Screen:



Py shell:

```
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\Rituraj Anand\Desktop\Externship\Py codes\IBM id.py ===
2021-07-18 13:05:59,129   wiotp.sdk.device.client.DeviceClient   INFO    Connecte
d successfully: d:hlj5ww:VIT_Device:754984

=== RESTART: C:\Users\Rituraj Anand\Desktop\Externship\Py codes\IBM id.py ===
2021-07-18 13:08:31,252   wiotp.sdk.device.client.DeviceClient   INFO    Connecte
d successfully: d:hlj5ww:VIT_Device:754984
Message received from IBM IoT Platform: Heyy
Message received from IBM IoT Platform: Heyy there
Message received from IBM IoT Platform: Heyy there
Message received from IBM IoT Platform: This is my new Application
Message received from IBM IoT Platform: I'm sure you will like it!
```