VIT-IoT (INDUSTRY CERTIFICATE INTERNSHIP PROGRAM)

ASSIGNMENT -4

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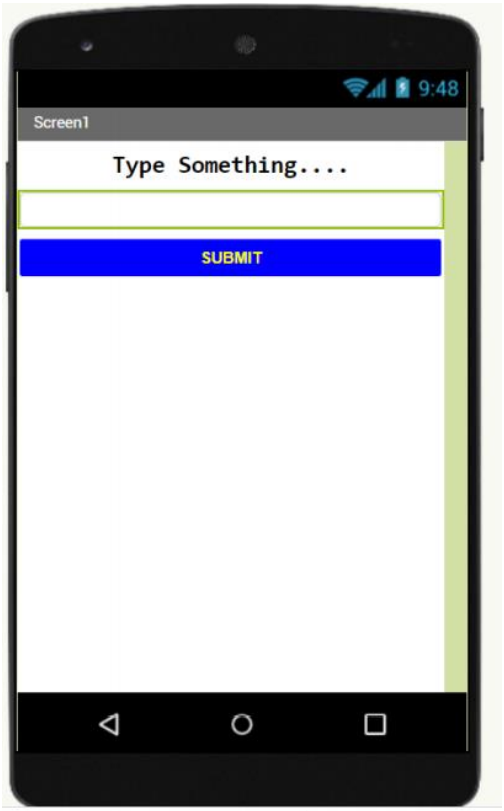
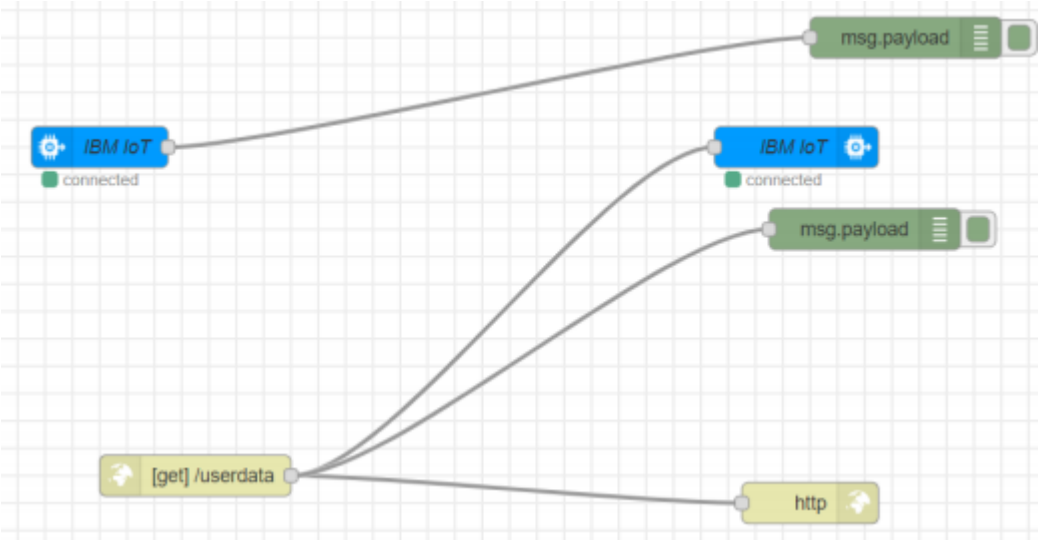
Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell. Keep a text box to accept the user input. integrate a submit button. whenever user enters the text input in text box and clicks the button the data should be sent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

Python code:

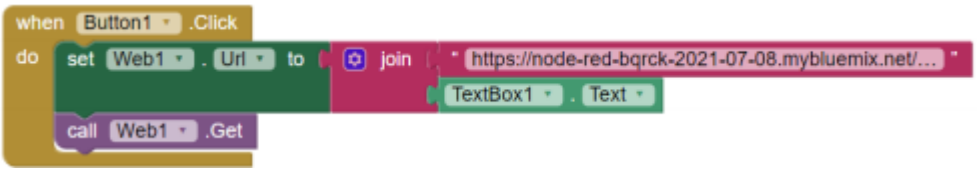
```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "k1qu6q",
        "typeId": "RPI",
        "deviceId":"003"
    },
    "auth": {
        "token": "789789789"
    }
}

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



The IBM IoT Node connects the Device with python code



UI-BLOCK

User input given for the mobile

Data received successfully to the Node Red debug window

```
2021-07-18 15:21:31,430   wiotp.sdk.device.client.DeviceClient  INFO    Connecte
d successfully: d:d9cbnt:FirstDevice:14831
Message received from IBM IoT Platform: hello world
Message received from IBM IoT Platform: hello world
```

Python shell of Receiving Data