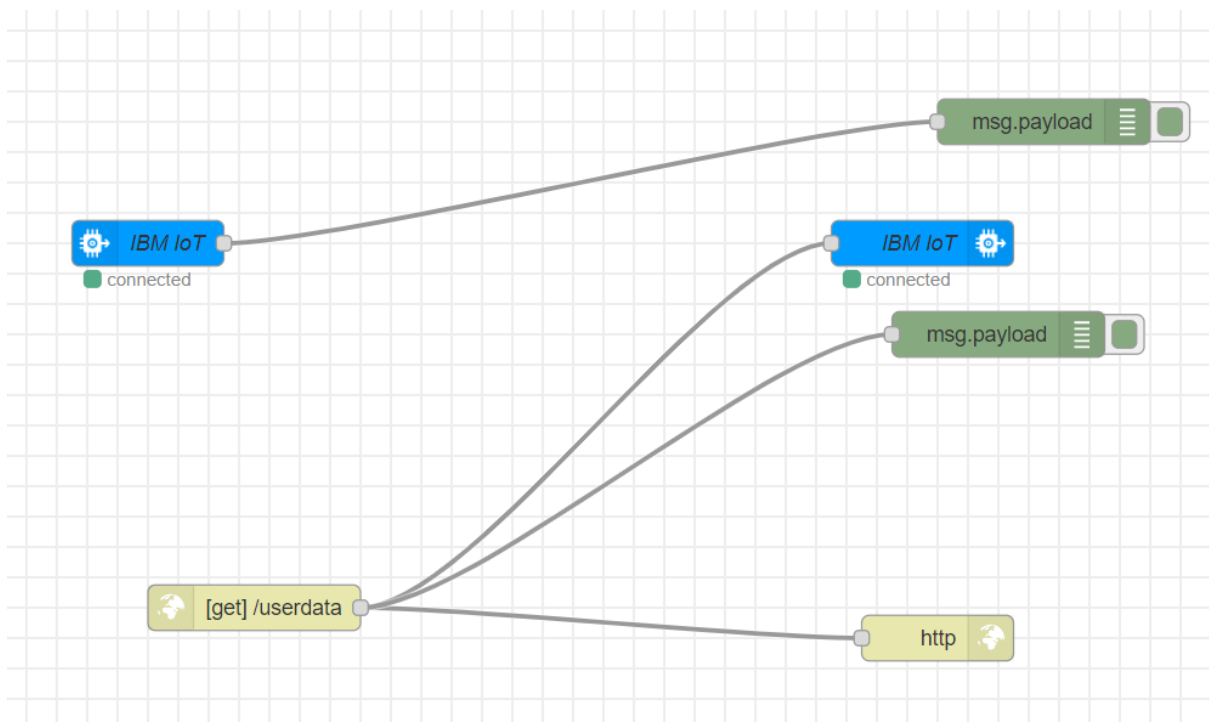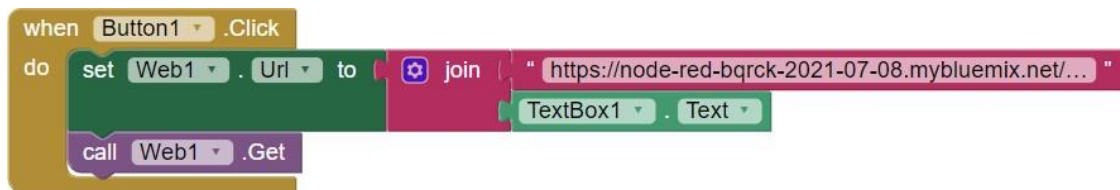Siddhant Shenoy

IoT Externship Training

Assignment 4

Q) 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).

NODE-RED FLOW –

UI BLOCK –

CODE –

```python
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "lmw2gz",
        "typeId": "DevDelta",
        "deviceId":"9658"
    },
    "auth": {
        "token": "96582653"
    }
}

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

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

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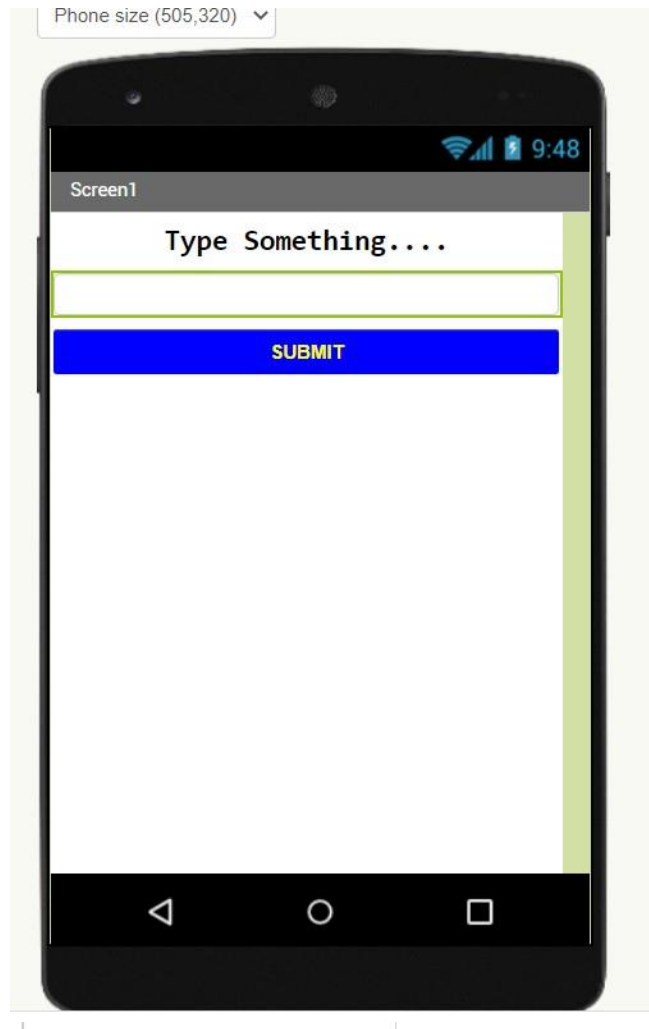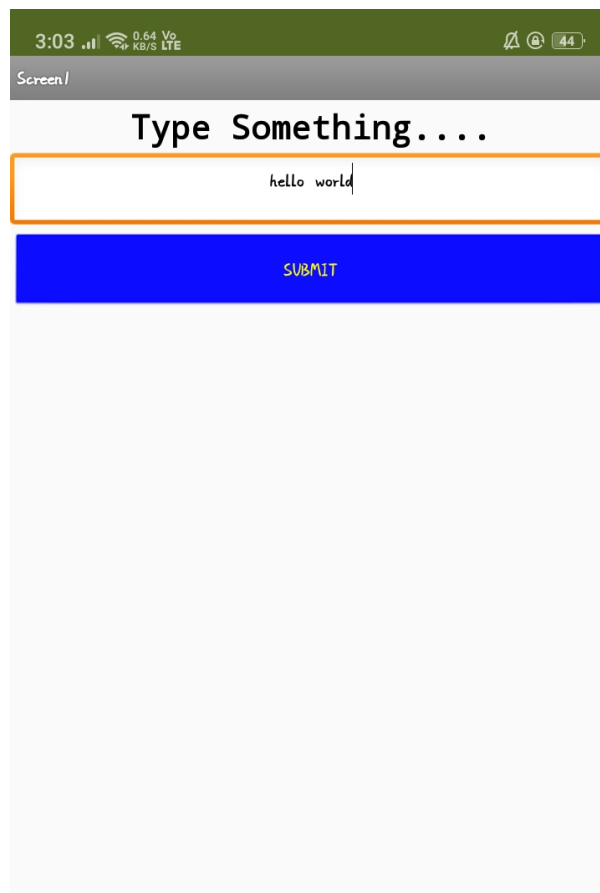
OUTPUTS –

a) Application UI

b) User Input to the UI

c) Data Received in Node-RED

d) Data Received by Python Shell

RESTART: C:\Users\avind\Desktop\Saivardhan\externship\assignment3.py
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