Jivika S

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IoT – Industrial Internship
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": "96dm08",
        "typeID": "A4",
        "deviceId": "12321"
    },
    "auth": {
        "token": "JivikaS@4"
    }
}
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()
```

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "96dm08",
        "typeID": "A4",
        "deviceId": "12321"
    },
    "auth": {
        "token": "JivikaS@4"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.c

client = wiotp.sdk.device.DeviceClient(config = myConfig, logH
client.connect()
```

Fig 1: Python Code

Application UI:

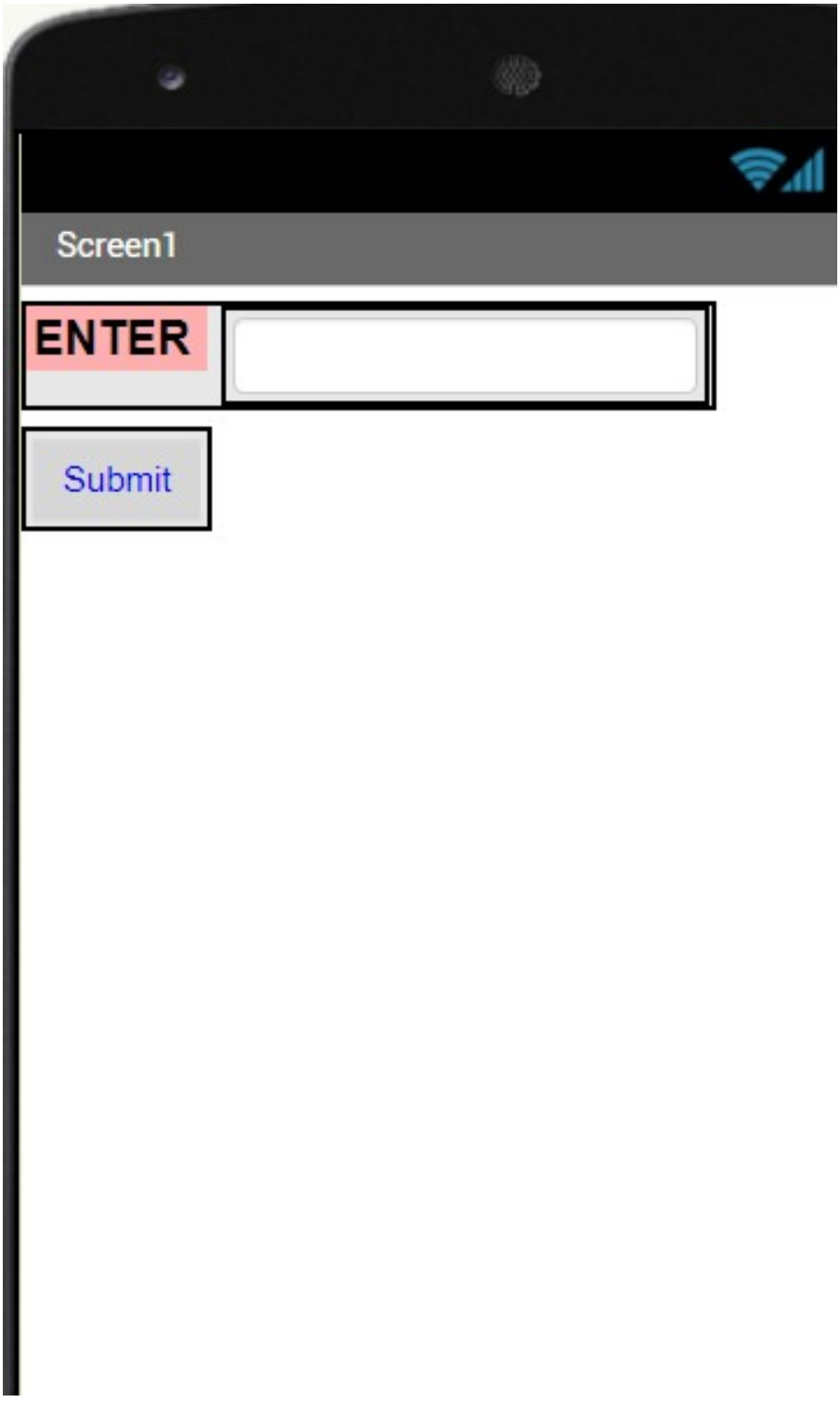

Fig 2: Application UI

Node Red Flow:

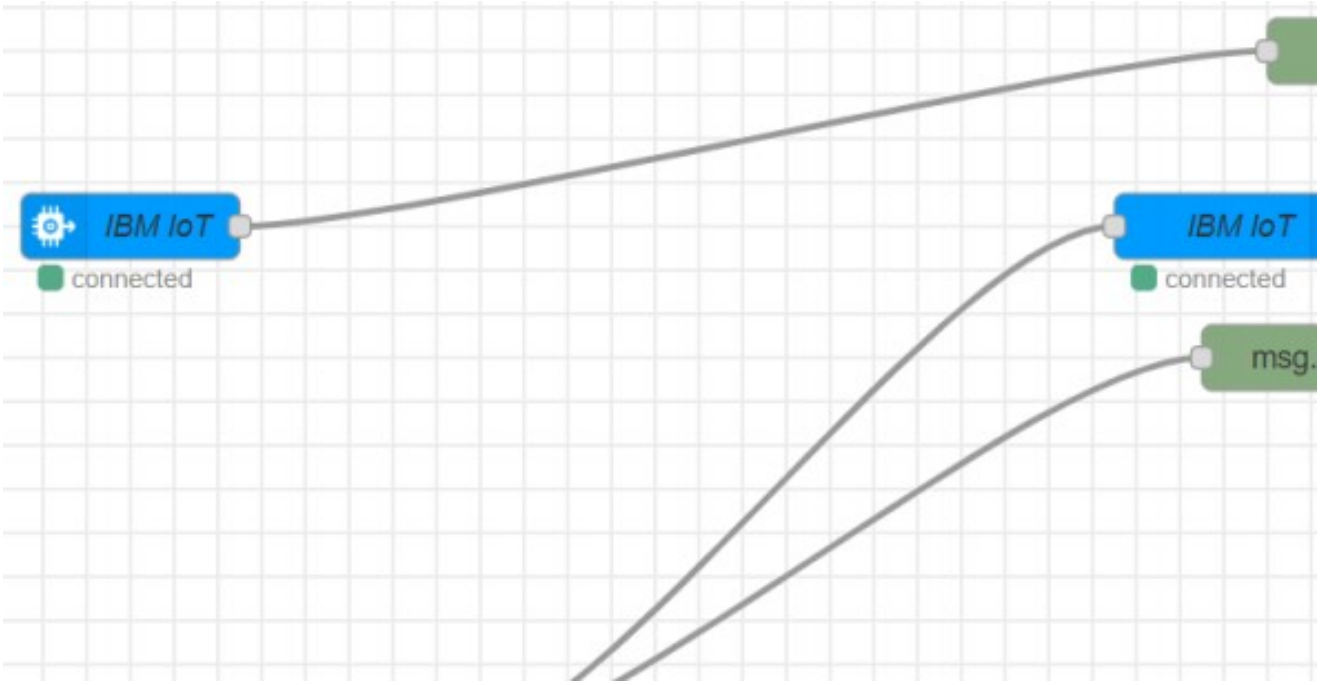

Fig 3: Node Red Flow

User Input:

Fig 4: The user input given

Message:

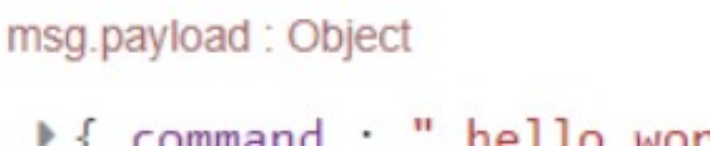

Fig 5: The data is successfully received to Node Red Window

Receiving Data:

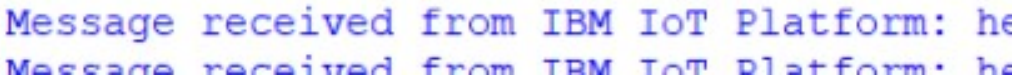

Fig 6: Python Shell of receiving data