VIT-IOT(INDUSTRY CERTIFICATE INTERNSHIP PROGRAM)

ASSIGNMENT-4

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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": "d9cbnt",
        "typeId": "FirstDevice",
        "deviceId":"14831"
    },
    "auth": {
        "token": "SaiVardhan14831"
    }
}

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()
```

Fig.1 Python code editor window

Fig2. Application UI

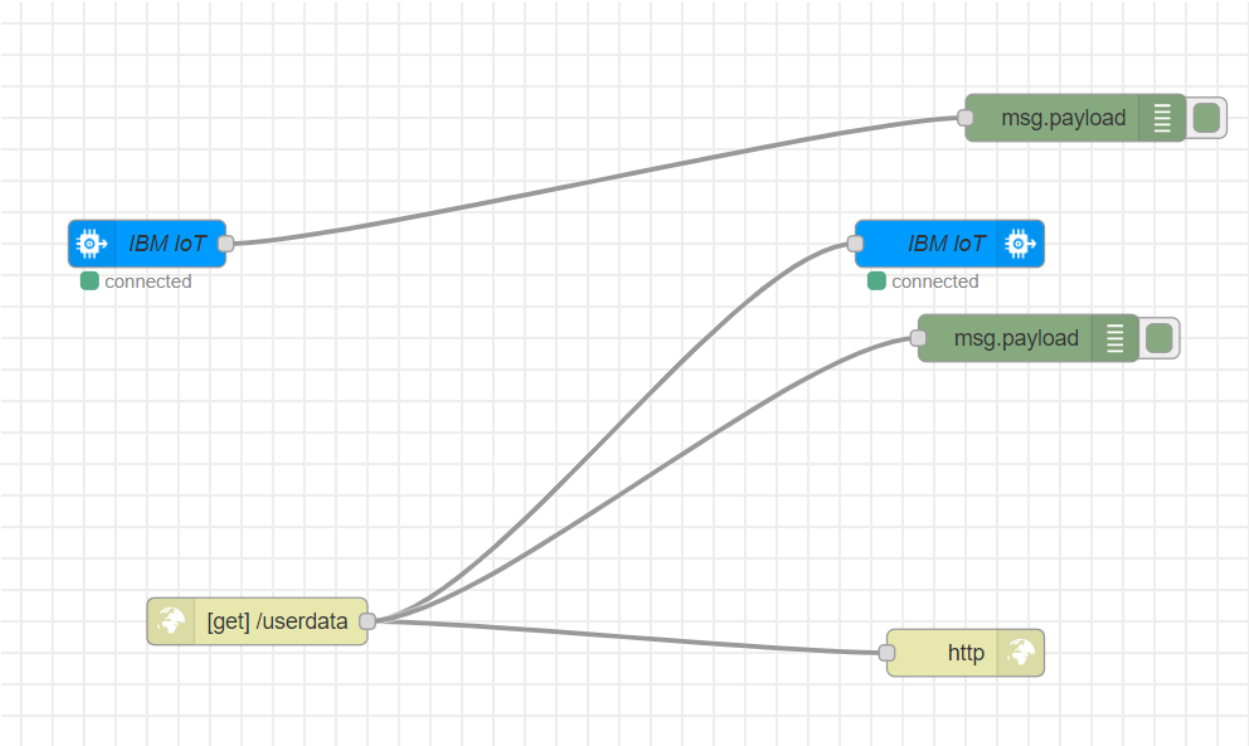

Fig3. Node Red flow chart → In this The IBM IoT Node connects the Device with python code

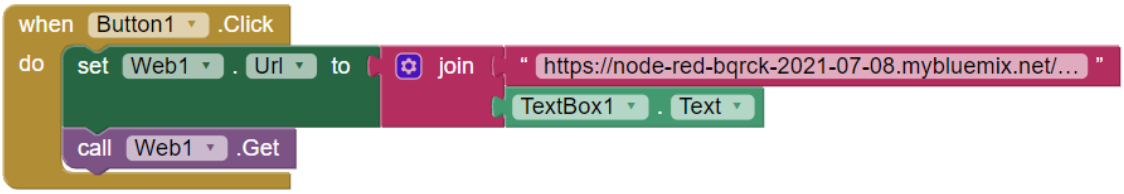

Fig.4. UI block logic

Fig5. User Input given from mobile

Fig6. Data received successfully to the Node Red debug window

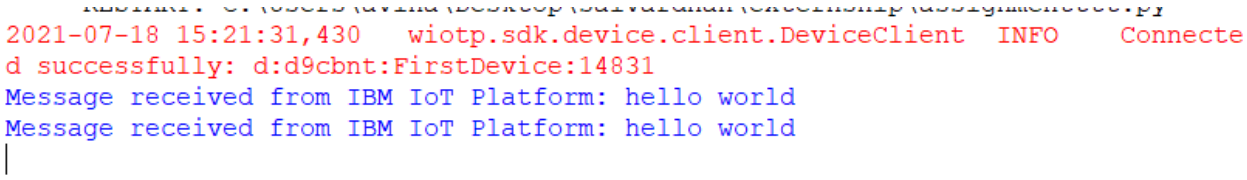

Fig.7. Python shell of Reciving Data