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.1Python code editor window

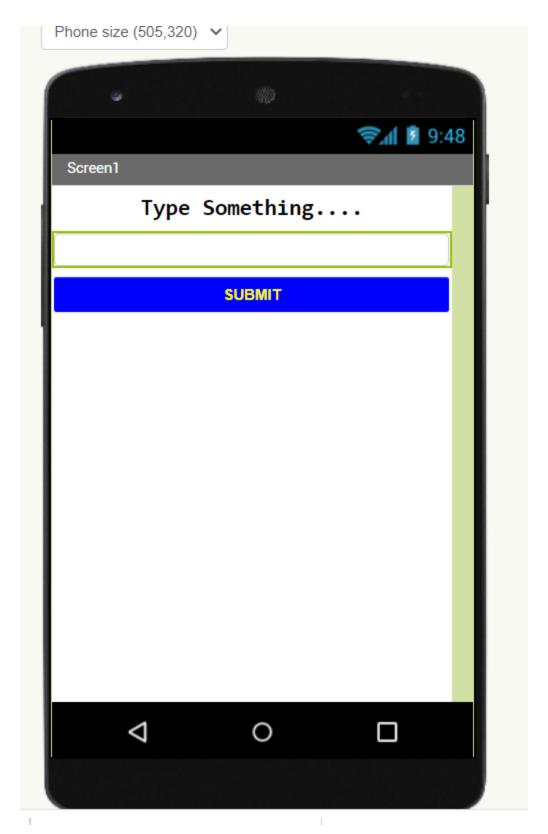
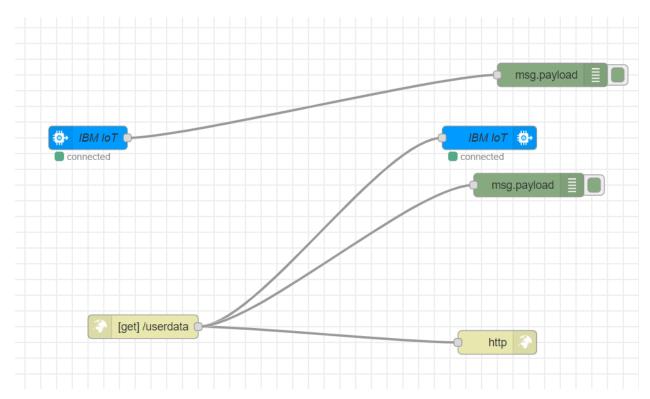


Fig2. Application UI



 $\textbf{Fig3.} \textbf{Node} \ \textbf{Red} \ \textbf{flow} \ \textbf{chart} \rightarrow \textbf{In} \ \textbf{this} \ \textbf{The} \ \textbf{IBM} \ \textbf{IoT} \ \textbf{Node} \ \textbf{connects} \ \textbf{the} \ \textbf{Device} \ \textbf{with} \\ \textbf{python} \ \textbf{code}$

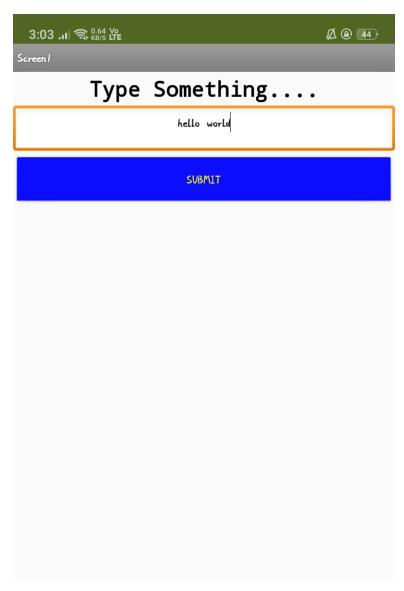


Fig5.User Input given from mobile

Fig5.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
```

Fig.6. Python shell of Reciving Data