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.

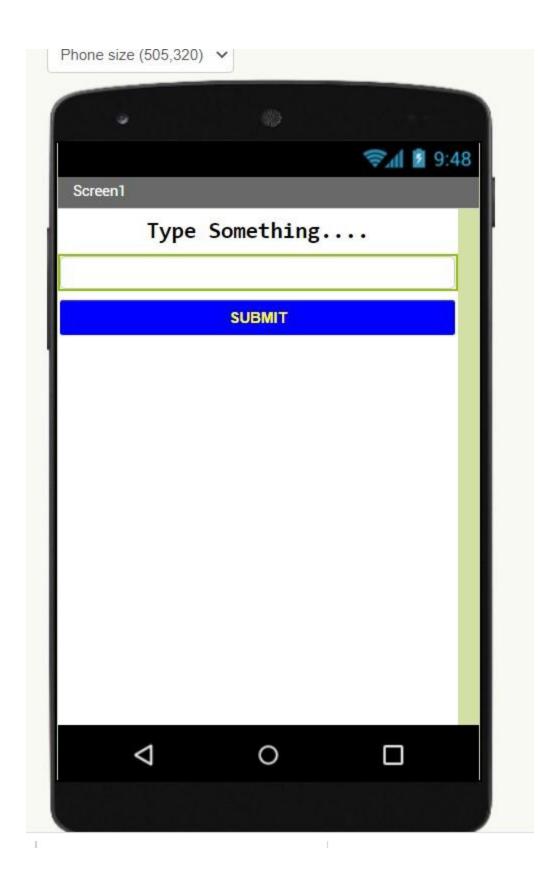
Keep a text box to accept the user input.integrate a submit button.

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



msg.payload msg.payload connected msg.payload msg.payload limits in the limits in thel

Fig2. Application UI

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