

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": "dalxud",
"typeId": "Firstdevicee"
"deviceId" : "54321"

"auth": 1

"token": "0987654321"

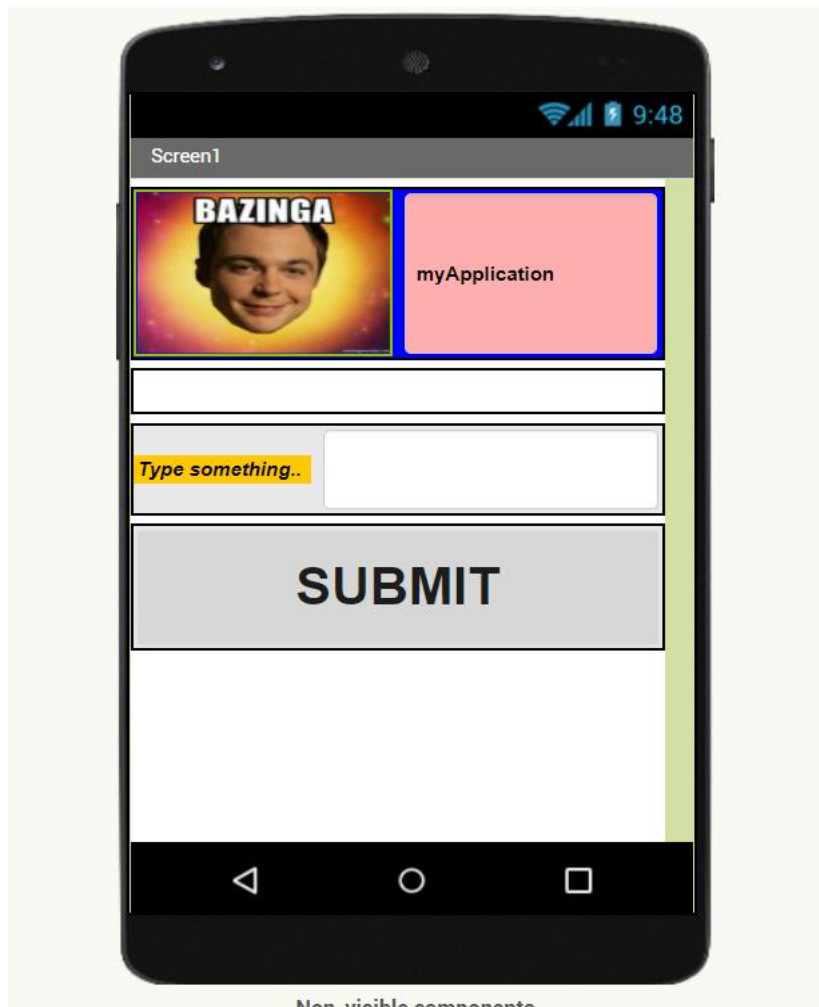
def myCommandcallback (cmd):
print ("Message received from IBM IOT Platform: *%s" % cmd.data [ 'command' ] )
#m=cmd.data['command ' ]

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

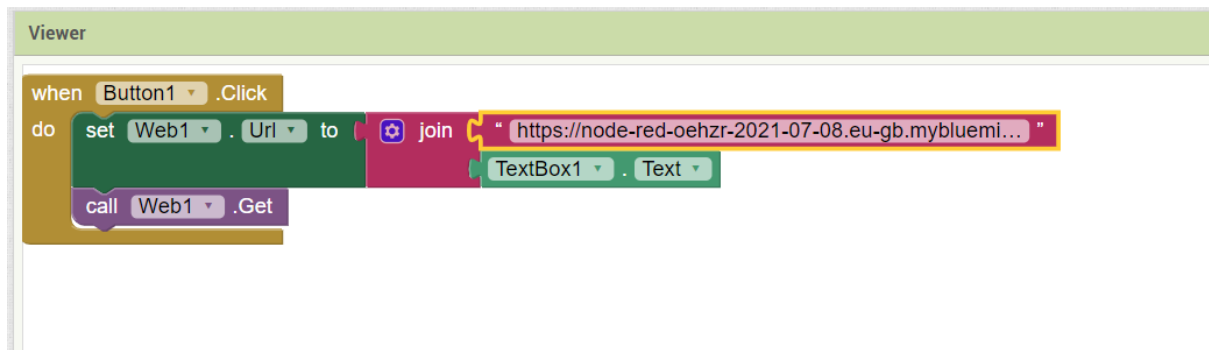
while True:

client.commandCallback = myCommandCallback
time.sleep (2)
client.disconnect ()
```

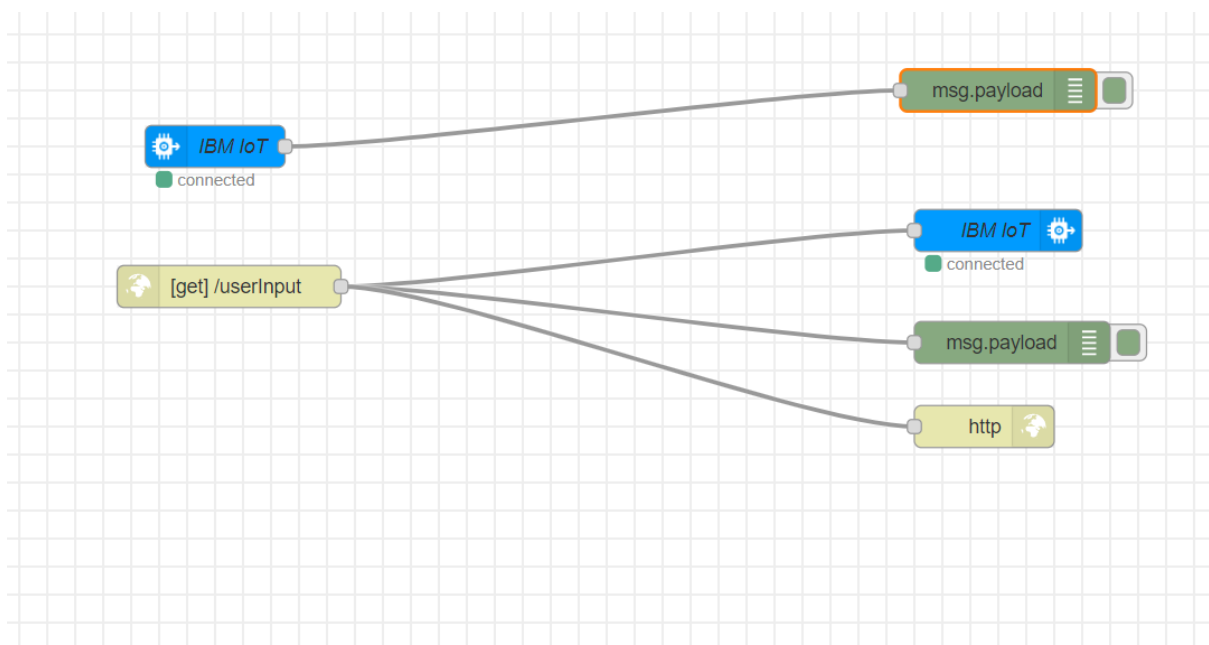
Application UI



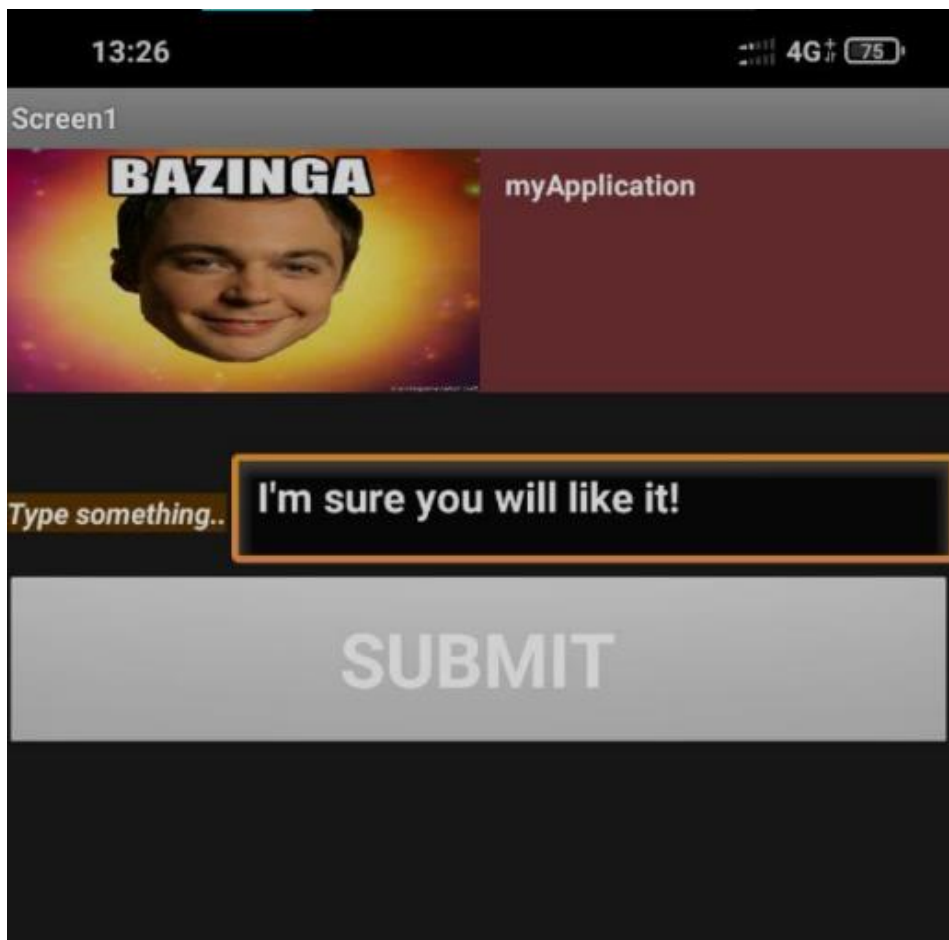
Blocks to function the above UI



Node-red Flow that connects the IBMIoT with the Application

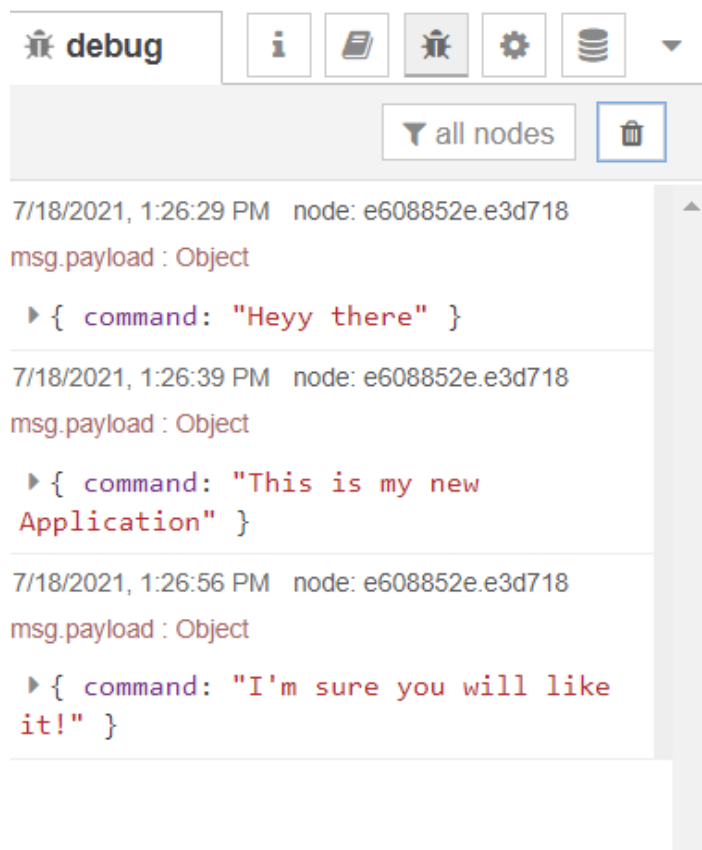


Input through the App:



Outputs:

Node-red Debug Screen:



Py shell:

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20)[MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>
==RESTART: C:\Users\teja\Desktop\Externship\Py codes\IBM id.py==
2021-07-18 13:05:59,129 wiota.sdk.device.client.DeviceClient INFO Connecte
d successfully: d3hj5ww: Firstdevice : 54321

==RESTART: C:\Users\teja\Desktop\Externship\Py codes\IBM id.py==
2021-07-18 13:08:31,252 wiota.sdk.device.client.DeviceClient INFO Connecte
d successfully: d3hj5ww: Firstdevice : 54321
Message received from IBM IOT Platform: Heyy
Message received from IBM IOT Platform: Heyy there
Message received from IBM IOT Platform: Heyy there
Message received from IBM IOT Plat form: This is my new Application
Message received from IBM IOT Platform: I'm sure you will like it!
```