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Course: Smart Bridge IoT

Assignment 4

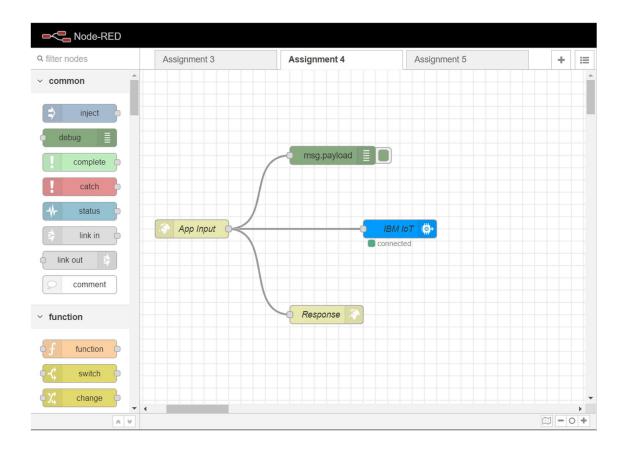
Task:

Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.

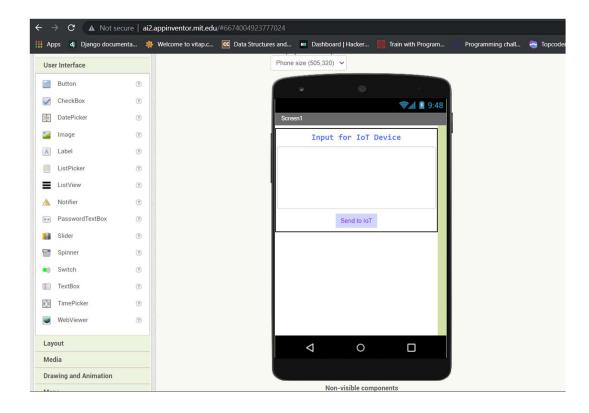
Keep a text box to accept the user input. Integrate a submit button.

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).

Node Red Architecture:



MIT App Design:



MIT APP Logic Blocks:



Python Code:

```
from pytz import timezone
from wiotp.sdk.device import DeviceClient
config = {
  "identity":{
     "orgId":"8vprpv",
     "typeId":"First",
     "deviceId":"1"
  },"auth":{
     "token":"12345678"}}
def callBackFunc(cmd):
  print("==
n")
  print(f"Text Entered on MIT App: {cmd.data['from_mit_app']}\n")
  print("=
n \mid n''
client = DeviceClient(config=config)
client.connect()
while True:
  client.commandCallback = callBackFunc
client.disconnect()
```

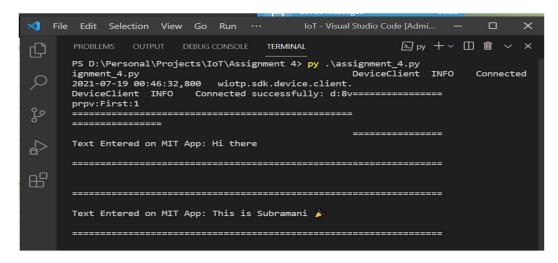
Working Prototype:

1. Sending message when IoT is enabled

a. App View (notification will be enabled on success)



b. Python Console Output



- 2. Sending message when IoT is disabled or connection time-out
 - a. App View (notification will be enabled on Failure)



b. Python Console

