

SPRINT 2

TEAM ID: PNT2022TMID03218

CONTRIBUTORS: Velmurugan, Vallimaharajan

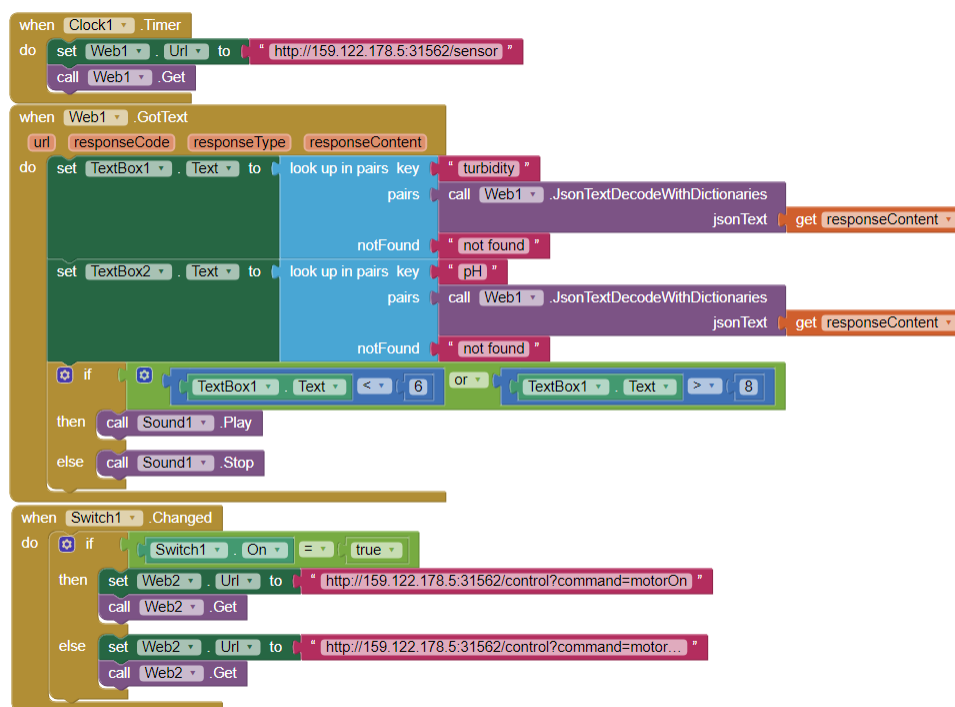
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Summary:

In this sprint, the following are done:

- Sound effects added in the MIT platform(phone app)
- Phone UI is made better
- Data in the backend is scrutinized to match real-world case.

CODE:



Python code:

(main loop):

while True:

```
pHIndex = random.randint(0,13)
```

```
pH = pHList[pHIndex]
```

```
if pH <= 8 and pH >= 6:
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```
    print("relax")
```

```
else:
```

```
    print("alert")
turbidity = round(random.uniform(0.1,1.0),2)
data = {'pH':pH , 'turbidity':turbidity}
print(data)
def onPublishCallBack():
    print("success")
success = deviceClient.publishEvent("lotSensor","json",data,qos=0,on_publish=onPublishCallBack)
if not success:
    print("not connected")
time.sleep(1)
deviceClient.commandCallback = myCommandCallBack

deviceClient.disconnect()
```

UI:

