SPRINT 2

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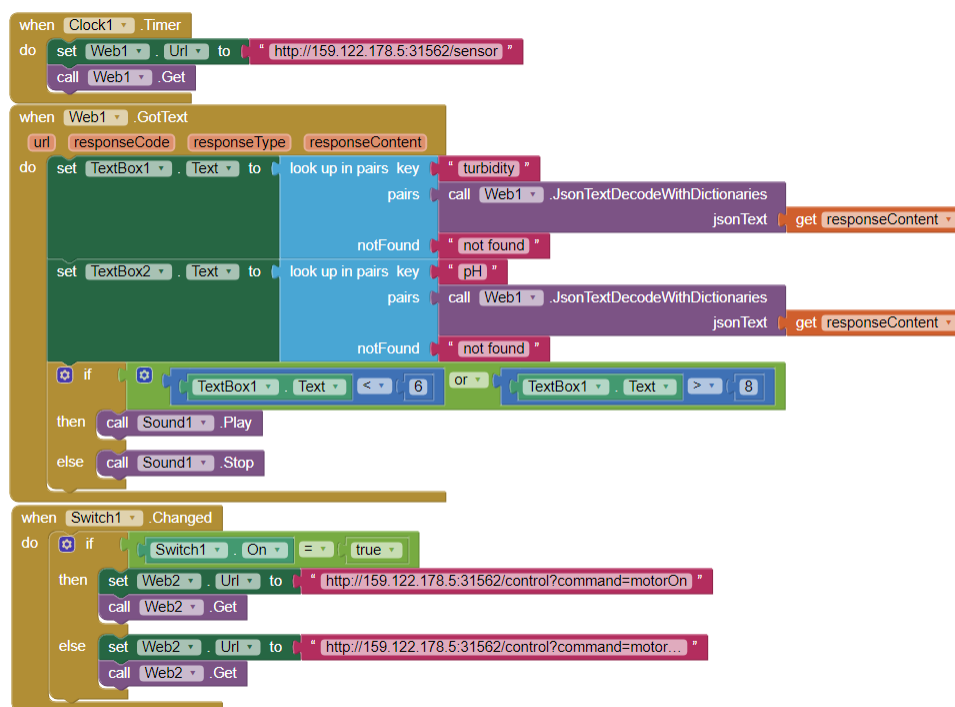DATE: 11-11-2022

Summary:

In this sprint, the following are done:

  a) Sound effects added in the MIT platform(phone app)
  b) Phone UI is made better
  c) 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:

    print("relax")

  else:
```

```python
        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("IotSensor","json",data,qos=0,on_publish=onPublishCallBack)
    if not success:
        print("not connected")
    time.sleep(1)
    deviceClient.commandCallback = myCommandCallBack


deviceClient.disconnect()
```

UI:

Current River Data

Turbidity

0.49

pH

7

Motor