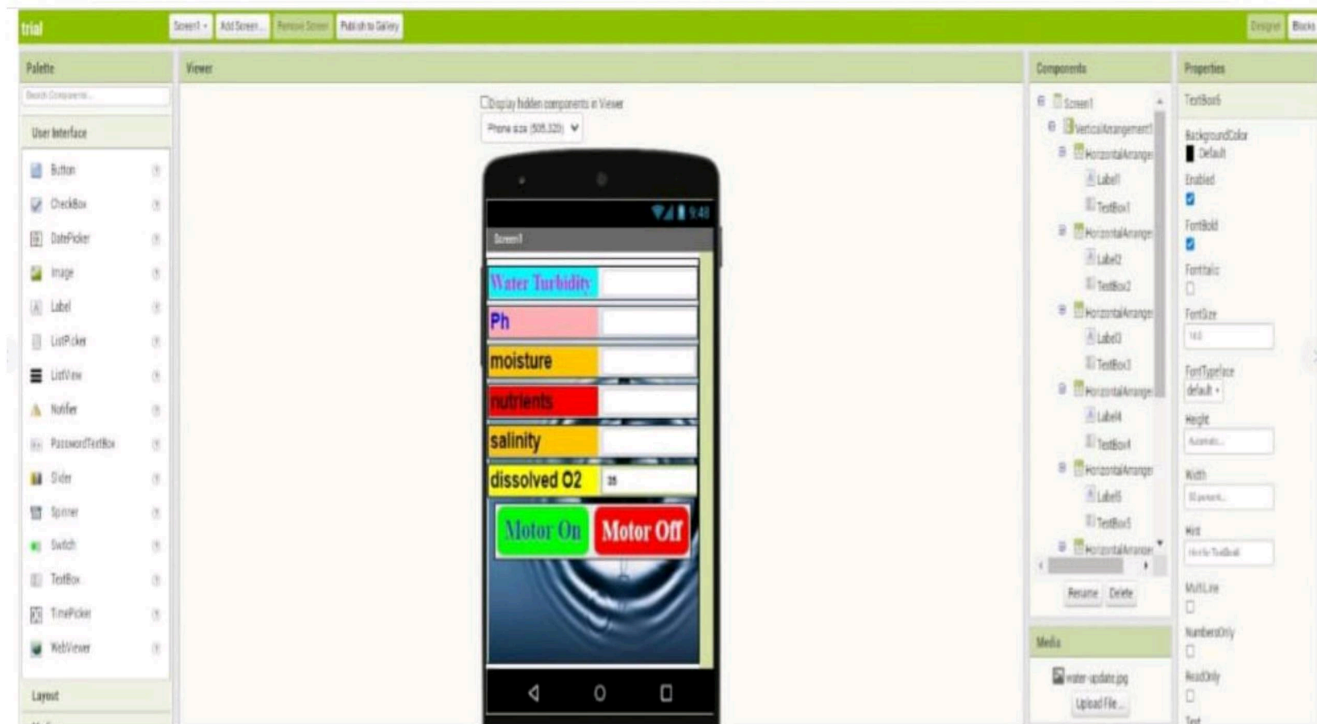# SPRINT 3

TEAM ID: PNT2022TMID51580

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

DESIGN AN APP IN MIT APP INVENTOR

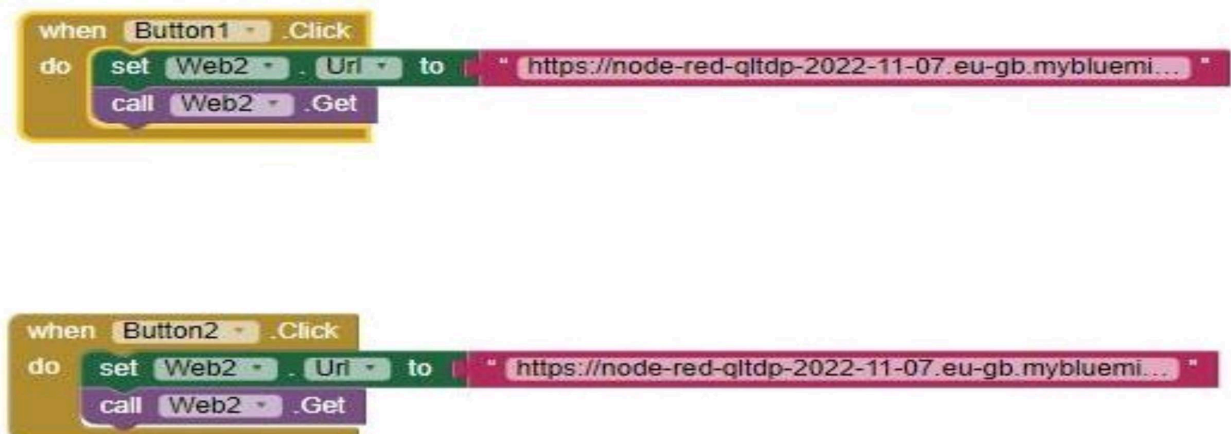**PARAMETERS ARE:**
1. Ph
2. Water turbidity
3. Moisture
4. Salinity
5. Dissolved Oxygen
6. Nutrients

FRAME THE BLOCKS FOR FUNCTIONING

```
when  Clock1 ▾ .Timer
do    set  Web1 ▾ . Url ▾  to  " https://node-red-qltdp-2022-11-07.eu-gb.mybluemi... "
      call  Web1 ▾ .Get
```

```
when  Web1 ▾ .GotText
 url  responseCode  responseType  responseContent
do   set  TextBox1 ▾ . Text ▾  to   look up in pairs  key   " waterturbidity "
                                                      pairs  call  Web1 ▾ .JsonTextDecode
                                                                    jsonText  get  responseContent ▾
                                                   notFound  " not found "
     set  TextBox2 ▾ . Text ▾  to   look up in pairs  key   " Ph "
                                                      pairs  call  Web1 ▾ .JsonTextDecode
                                                                    jsonText  get  responseContent ▾
                                                   notFound  " not found "
     set  TextBox3 ▾ . Text ▾  to   look up in pairs  key   " moisture "
                                                      pairs  call  Web1 ▾ .JsonTextDecode
                                                                    jsonText  get  responseContent ▾
                                                   notFound  " not found "
     set  TextBox4 ▾ . Text ▾  to   look up in pairs  key   " nutrients "
                                                      pairs  call  Web1 ▾ .JsonTextDecode
                                                                    jsonText  get  responseContent ▾
                                                   notFound  " not found "
     set  TextBox5 ▾ . Text ▾  to   look up in pairs  key   " salinity "
                                                      pairs  call  Web1 ▾ .JsonTextDecode
                                                                    jsonText  get  responseContent ▾
                                                   notFound  " not found "
     set  TextBox6 ▾ . Text ▾  to   look up in pairs  key   " dissolvedO2 "
                                                      pairs  call  Web1 ▾ .JsonTextDecode
                                                                    jsonText  get  responseContent ▾
                                                   notFound  " not found "
```

FOR BUTTONS:

```
when  Button1 ▾ .Click
do    set  Web2 ▾ . Url ▾  to  " https://node-red-qltdp-2022-11-07.eu-gb.mybluemi... "
      call  Web2 ▾ .Get
```

```
when  Button2 ▾ .Click
do    set  Web2 ▾ . Url ▾  to  " https://node-red-qltdp-2022-11-07.eu-gb.mybluemi... "
      call  Web2 ▾ .Get
```

{"Ph":6,"waterturbidity":78,"moisture":73,"nutrients":10,"salinity":38,"dissolvedO2":50}

I   Device Type: abcd

^   Event *type* name   event 1   **Send**   🗑
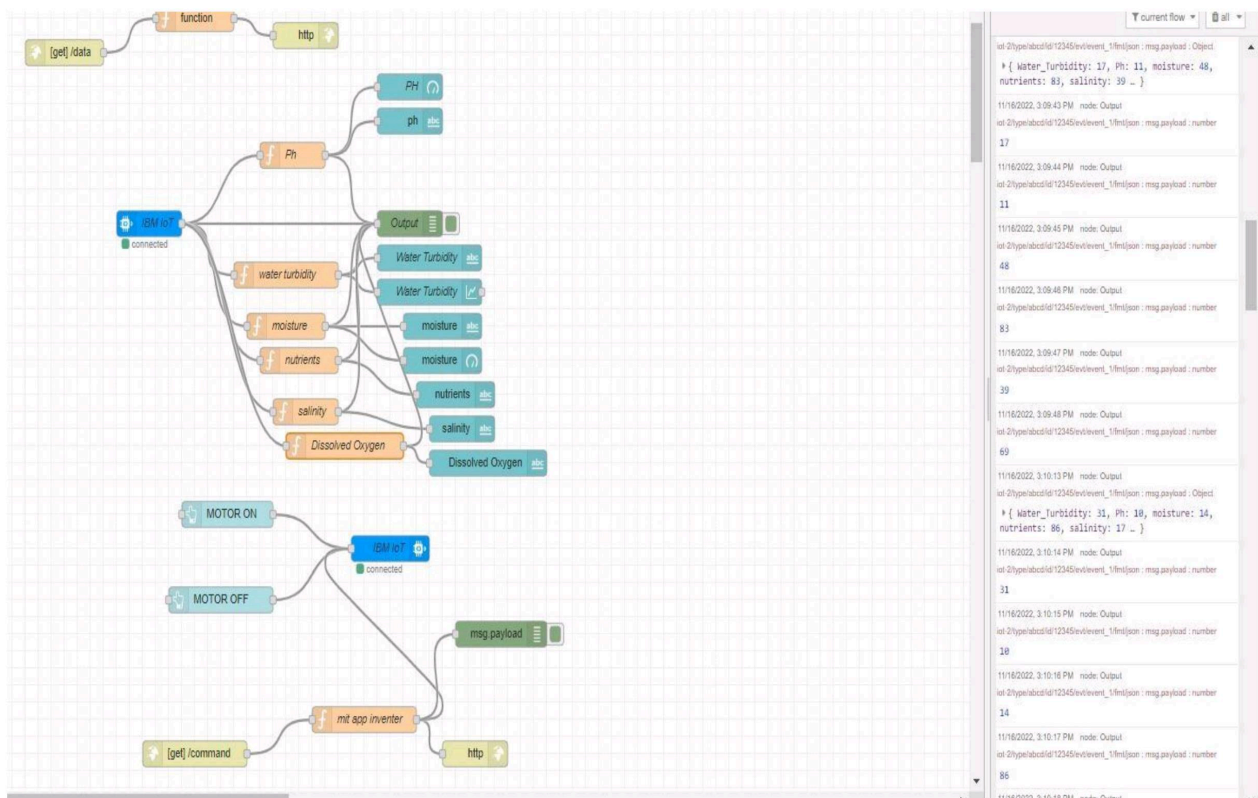
Schedule

2   Every Minute   -

Payload

Specify the event payload ‹n the editor window or by uploading a CSV file

```
I    Water_Turbidity': random(15,100),
2    'Ph':
3    'moisture':
4    'nutrients':
5    'salinity':
6    'dissolvedO2' :
```

APP IN MOBILE