Coding and Solutioning

Functional Features
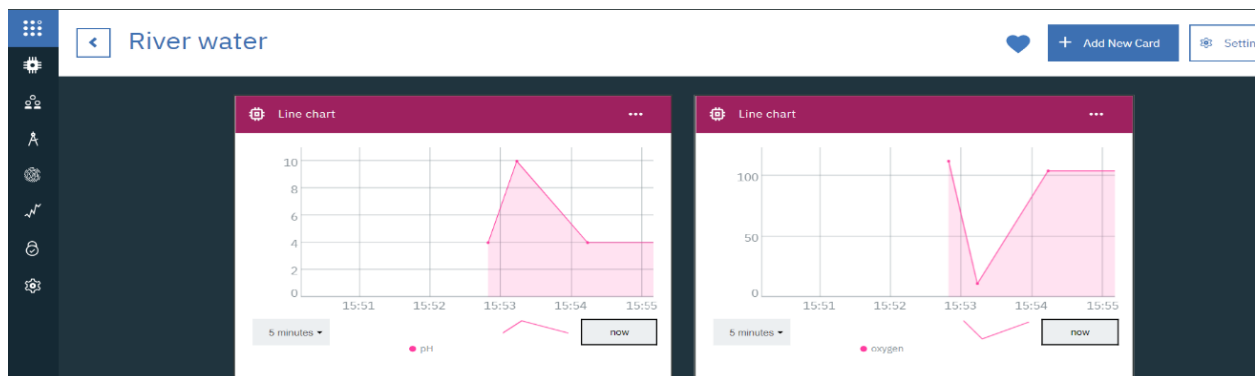
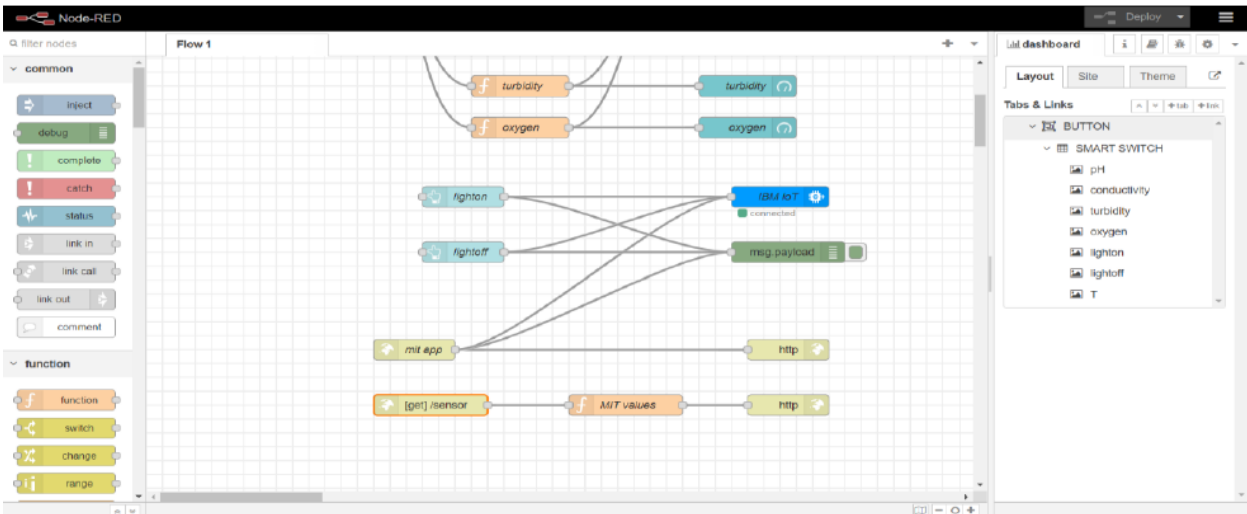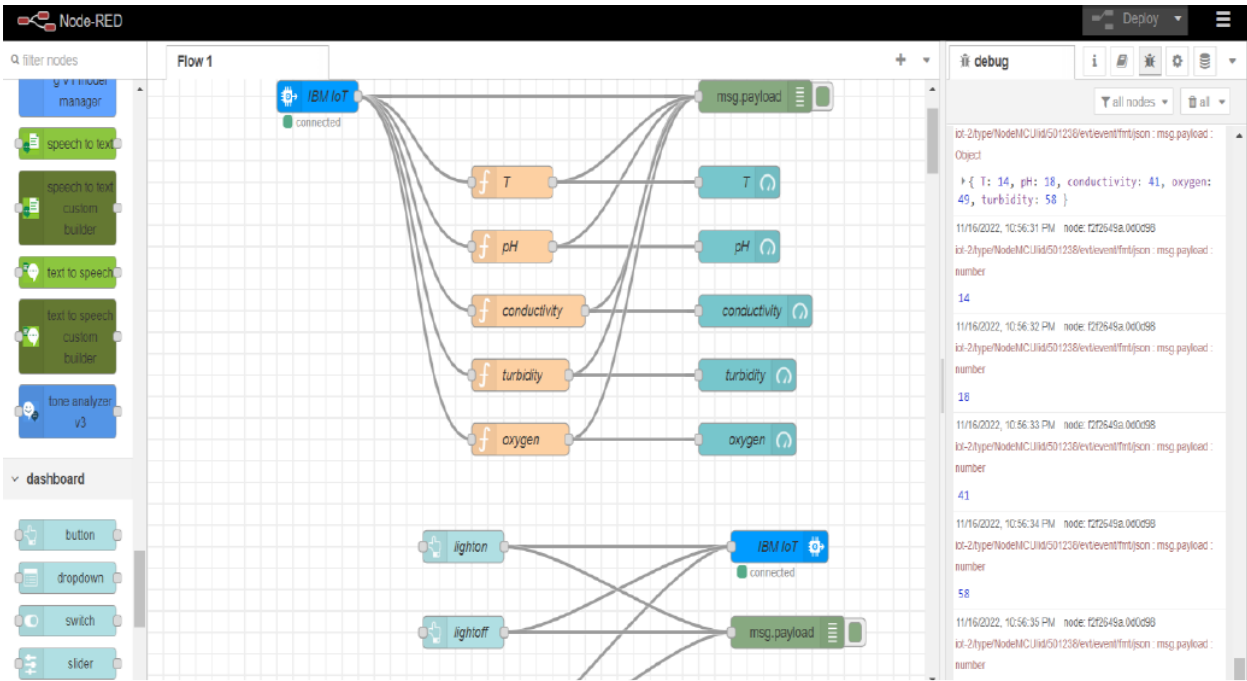| Date	19 November 2022
Team ID	PNT2022TMID51098
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

FUNCTIONAL FEATURE 1

IBM Watson

Node Red Service associated with IBM Cloud

Node Red Dashboard

SMART SWITCH

pH

18
units

conductivity

41
units

turbidity

58
units

oxygen

49
units

LIGHTON

LIGHTOFF

T

14
units
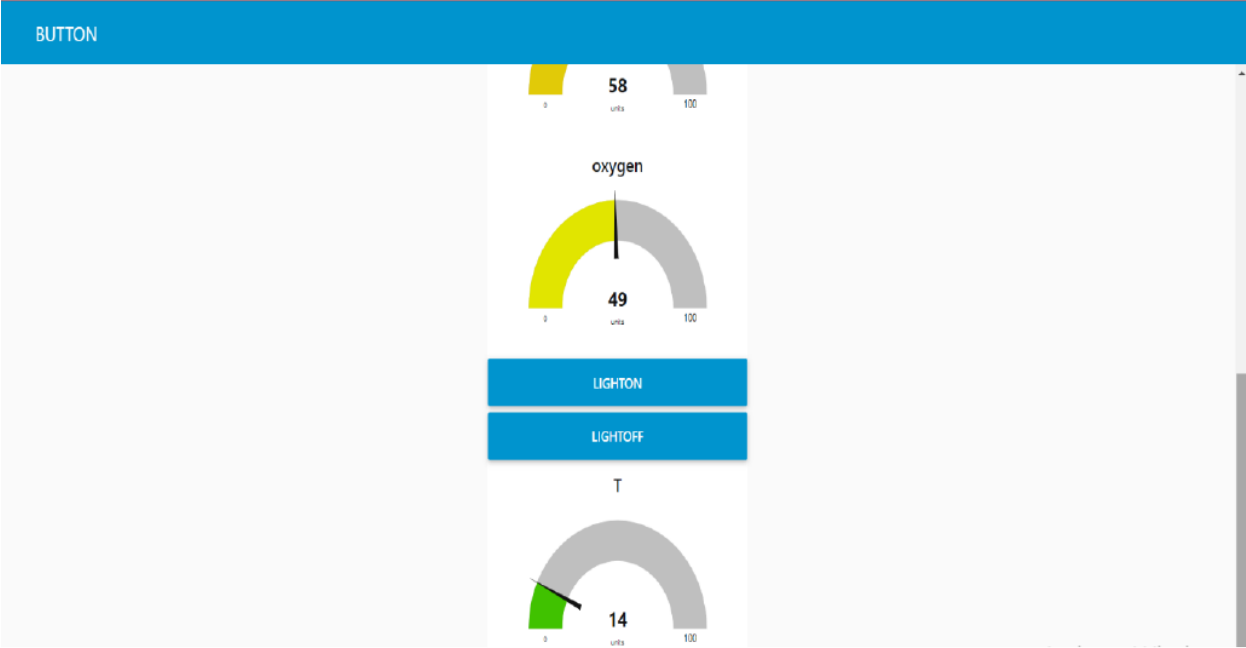
FUNCTIONAL FEATURE 2

MIT APP Inventor

RIVER_WATER_QUALITY_MONITORING — Screen2

```
when  Button1 .Click
do    if    TextBox1 . Text  =  " river water "  or   TextBox1 . Text  =  " 501288 "
      then  open another screen  screenName  " Screen3 "
      else  call  Notifier1 .ShowAlert
                  notice  " CHECK YOUR CREDENTIALS "
```


RIVER_WATER_QUALITY_MONITORING — Screen3 (Designer)

MONITORING WINDOW

T: Text for Label7
pH: Text for Label8
conductivity: Text for Label9
turbidity: Text for Label10
oxygen: Text for Label11

LIGHT ON
LIGHT OFF

RIVER_WATER_QUALITY_MONITORING — Screen3 (Blocks)