

WEB UI – TO MAKE USER TO INTERACT WITH THE SOFTWARE

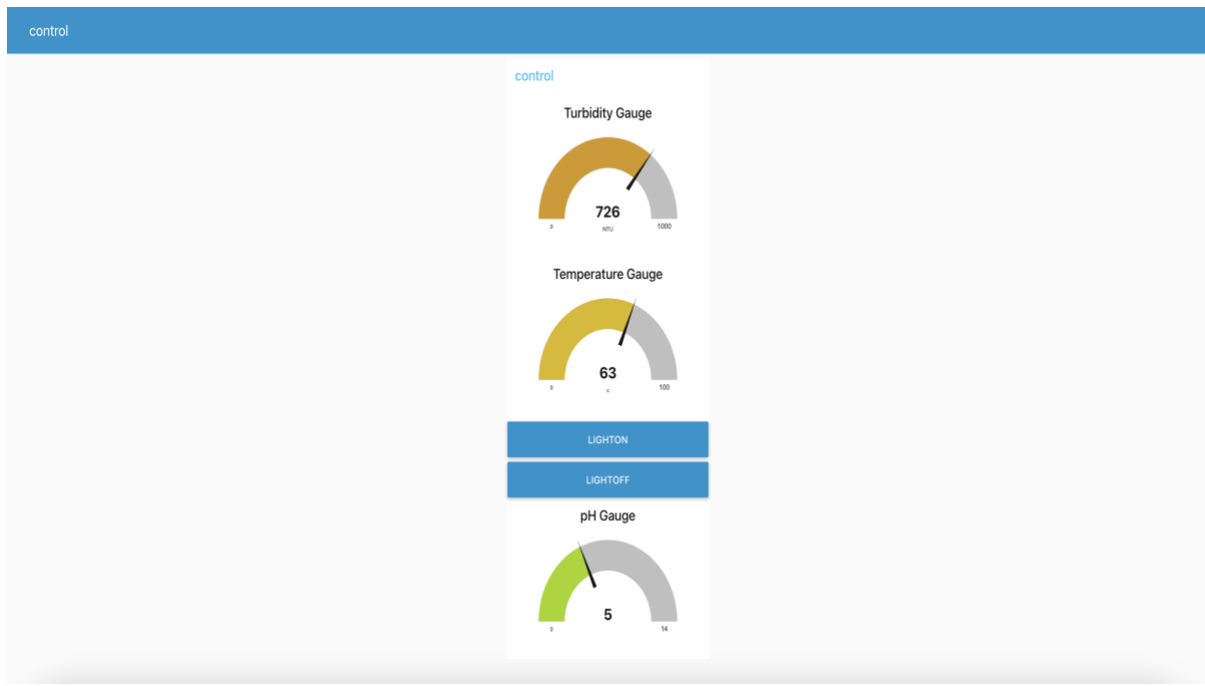


FIGURE-1: WEB UI CREATED USING NODE RED DASHBOARD

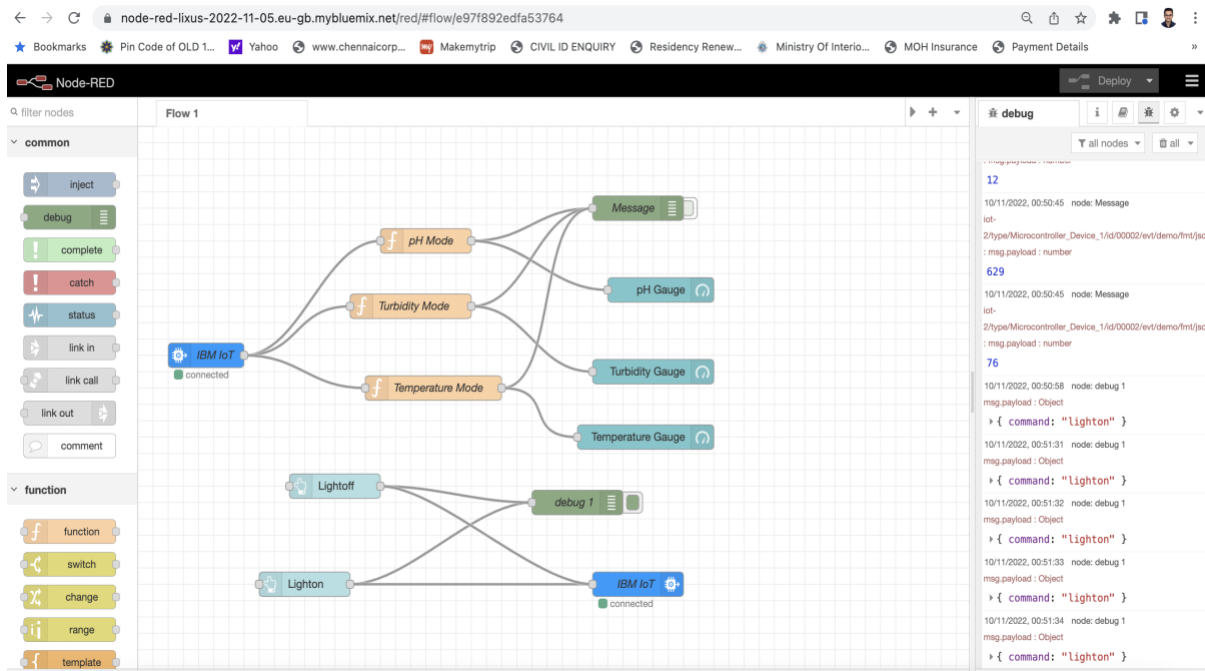


FIGURE2: WHEN THE LIGHTON BUTTON IS PRESSED

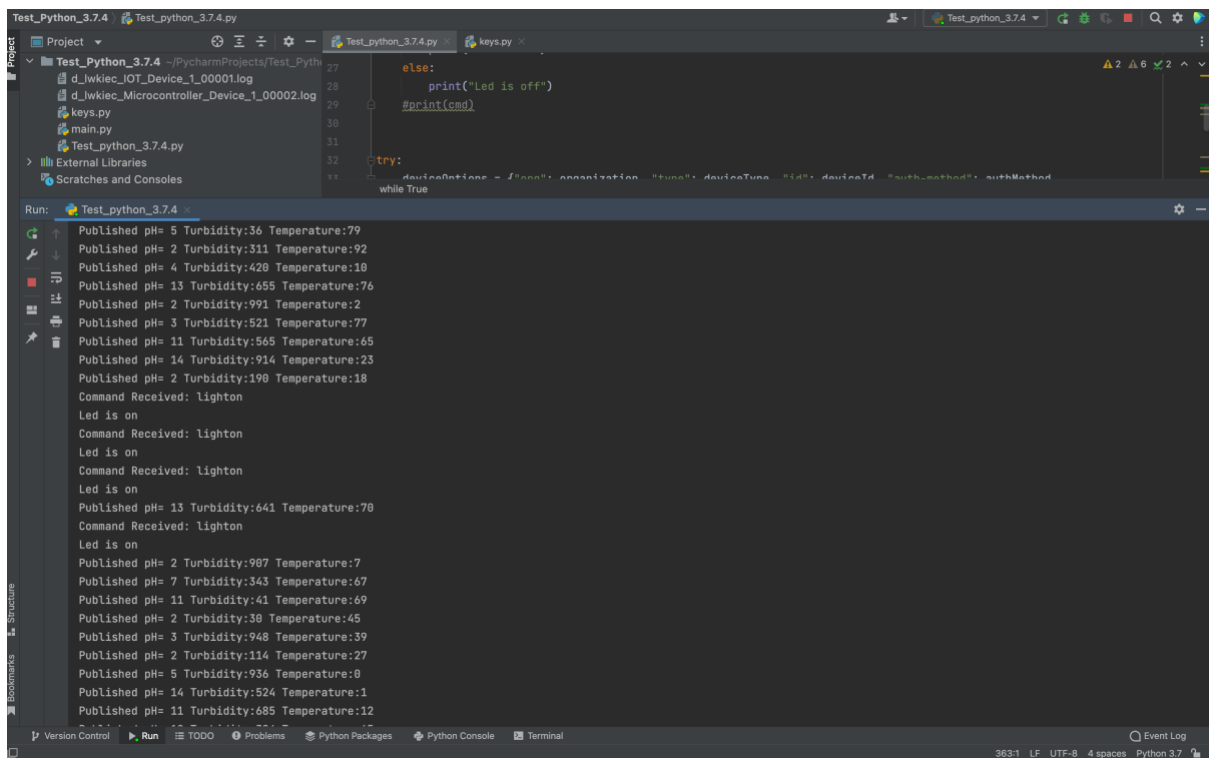


FIGURE3: PYCHARM SOFTWARE OUTPUT CONSOLE WHEN LIGHT ON BUTTON ON WEB UI IS PRESSED

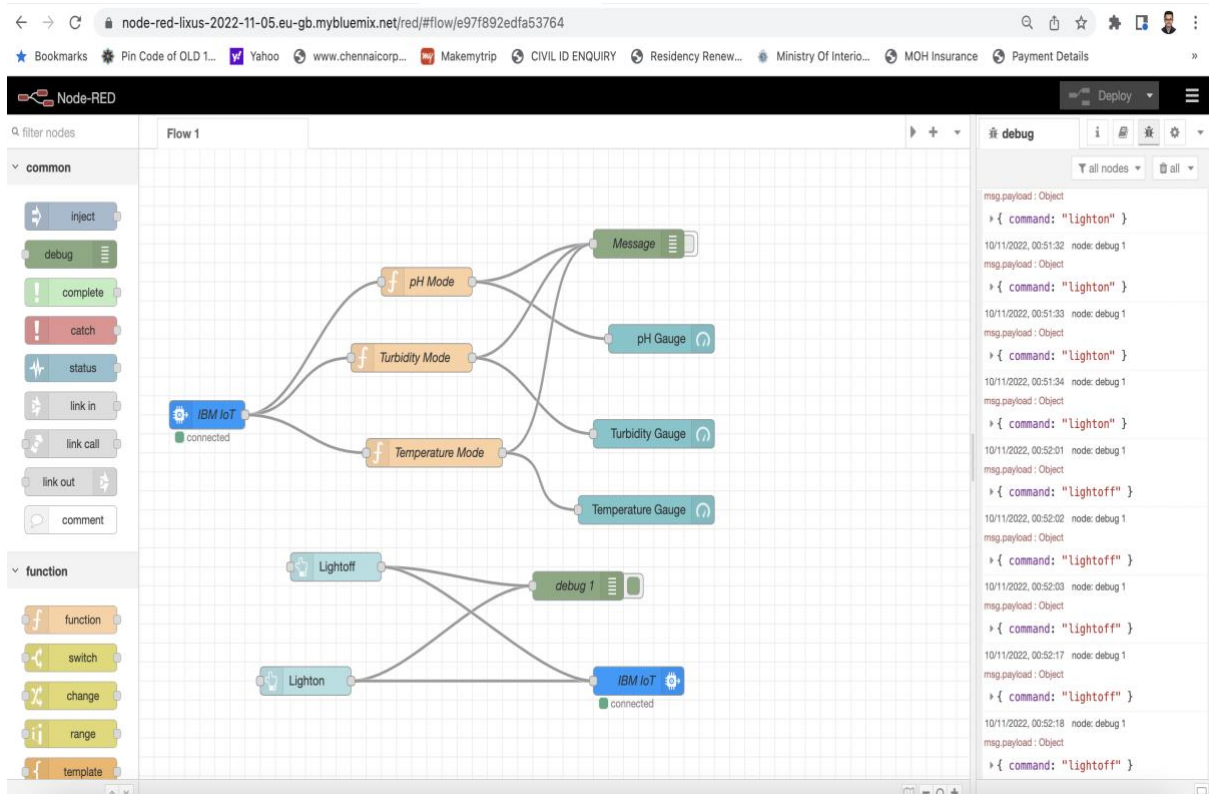


FIGURE4: WHEN LIGHTOFF BUTTON IS PRESSED ON THE WEB UI

The image shows the PyCharm IDE interface with the 'Run' console open. The console displays a sequence of log messages from a Python script. The messages include periodic sensor readings (pH, Turbidity, Temperature) and status updates triggered by a 'light off' command. The output is as follows:

```
Published pH= 6 Turbidity:699 Temperature:68
Published pH= 13 Turbidity:364 Temperature:70
Published pH= 10 Turbidity:629 Temperature:93
Published pH= 6 Turbidity:95 Temperature:79
Command Received: lightoff
Led is off
Command Received: lightoff
Led is off
Command Received: lightoff
Led is off
Published pH= 13 Turbidity:517 Temperature:28
Published pH= 3 Turbidity:561 Temperature:28
Published pH= 9 Turbidity:407 Temperature:34
Published pH= 11 Turbidity:858 Temperature:51
Published pH= 1 Turbidity:719 Temperature:86
Published pH= 14 Turbidity:684 Temperature:48
Published pH= 9 Turbidity:79 Temperature:75
Published pH= 13 Turbidity:500 Temperature:76
Command Received: lightoff
Led is off
Command Received: lightoff
Led is off
Published pH= 3 Turbidity:306 Temperature:11
Published pH= 6 Turbidity:837 Temperature:72
Published pH= 11 Turbidity:389 Temperature:61
Published pH= 7 Turbidity:886 Temperature:11
Published pH= 4 Turbidity:648 Temperature:20
```

FIGURES: PYCHARM SOFTWARE OUTPUT CONSOLE WHEN LIGHT OFF BUTTON ON WEB UI IS PRESSED