SPRINT-4

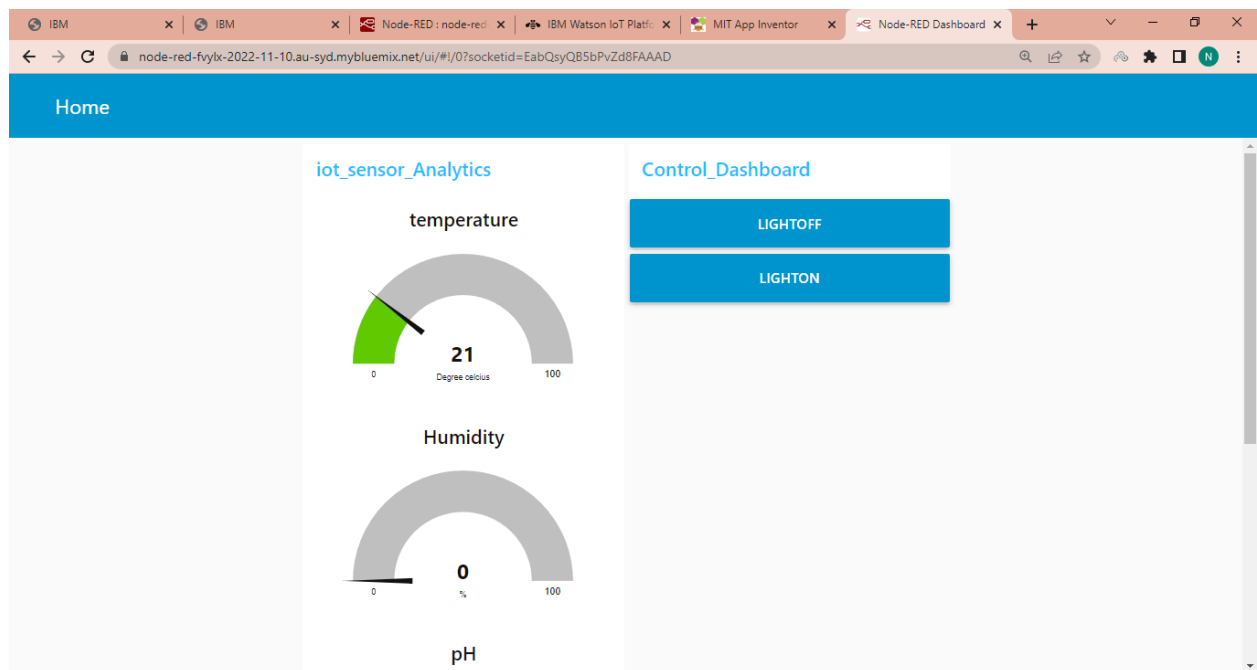| TEAM ID	PNT2022TMID26105
PROJECT TITLE	REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
DATE	11 NOVEMBER 2022

WEB UI – TO MAKE USER TO INTERACT WITH THE SOFTWARE
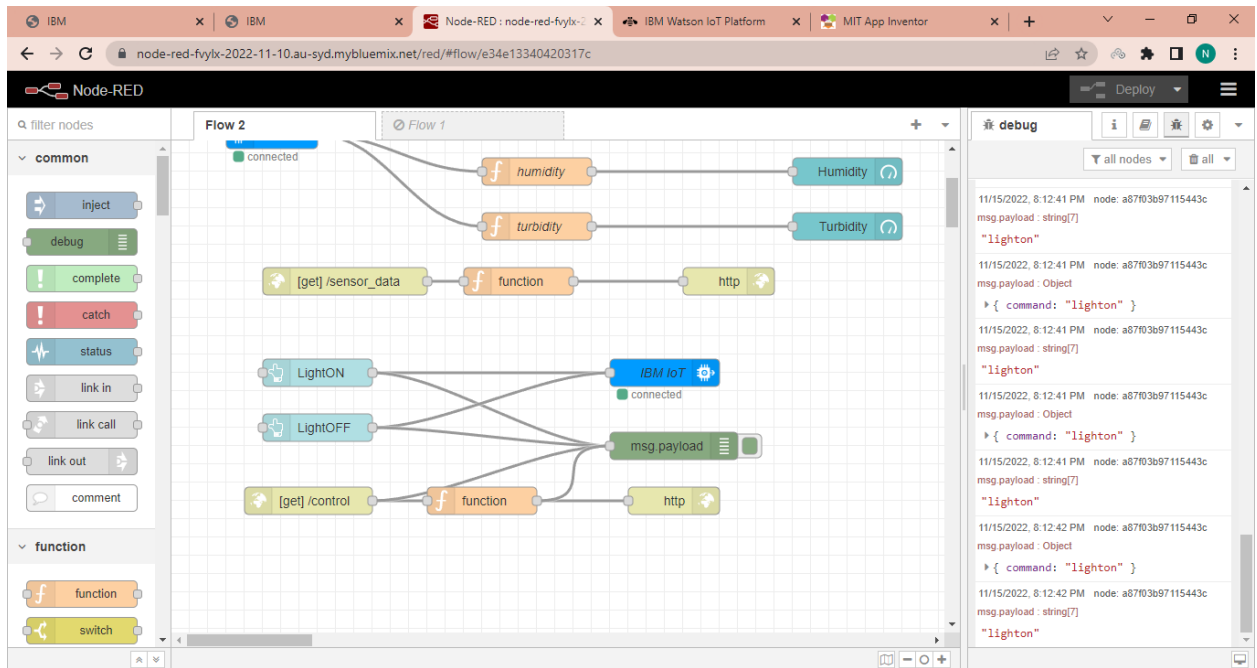

FIGURE-1: WEB UI CREATED USING NODE RED DASHBOARD

FIGURE2: WHEN THE LIGHTON BUTTON IS PRESSED

LIGHT ON
Command received: lighton
LIGHT ON
Command received: lighton
LIGHT ON
Published data {'temperature': 3, 'ph': 19, 'conductivity': 72, 'oxygen': 100, 'turbidity': 31} to IBM Watson
Command received: lighton
LIGHT ON
Command received: lighton
LIGHT ON
Command received: lighton
LIGHT ON
Command received: lighton
LIGHT ON
Published data {'temperature': 34, 'ph': 37, 'conductivity': 86, 'oxygen': 49, 'turbidity': 10} to IBM Watson
Published data {'temperature': 66, 'ph': 26, 'conductivity': 55, 'oxygen': 45, 'turbidity': 4} to IBM Watson
Published data {'temperature': 74, 'ph': 62, 'conductivity': 73, 'oxygen': 69, 'turbidity': 59} to IBM Watson
Published data {'temperature': 19, 'ph': 63, 'conductivity': 62, 'oxygen': 17, 'turbidity': 80} to IBM Watson
Published data {'temperature': 80, 'ph': 8, 'conductivity': 38, 'oxygen': 27, 'turbidity': 92} to IBM Watson
Published data {'temperature': 4, 'ph': 20, 'conductivity': 60, 'oxygen': 45, 'turbidity': 15} to IBM Watson
Published data {'temperature': 16, 'ph': 8, 'conductivity': 19, 'oxygen': 50, 'turbidity': 70} to IBM Watson
Published data {'temperature': 40, 'ph': 37, 'conductivity': 75, 'oxygen': 86, 'turbidity': 84} to IBM Watson
Published data {'temperature': 58, 'ph': 91, 'conductivity': 77, 'oxygen': 64, 'turbidity': 39} to IBM Watson
Published data {'temperature': 20, 'ph': 23, 'conductivity': 100, 'oxygen': 76, 'turbidity': 84} to IBM Watson
Published data {'temperature': 23, 'ph': 74, 'conductivity': 66, 'oxygen': 37, 'turbidity': 28} to IBM Watson
Published data {'temperature': 54, 'ph': 100, 'conductivity': 16, 'oxygen': 56, 'turbidity': 61} to IBM Watson
Published data {'temperature': 13, 'ph': 4, 'conductivity': 36, 'oxygen': 95, 'turbidity': 96} to IBM Watson
Published data {'temperature': 75, 'ph': 59, 'conductivity': 76, 'oxygen': 61, 'turbidity': 84} to IBM Watson
Published data {'temperature': 43, 'ph': 45, 'conductivity': 9, 'oxygen': 66, 'turbidity': 54} to IBM Watson
Command received: lighton
LIGHT ON
Command received: lighton
LIGHT ON
Command received: lighton
LIGHT ON
Command received: lighton
LIGHT ON
Published data {'temperature': 49, 'ph': 1, 'conductivity': 44, 'oxygen': 46, 'turbidity': 15} to IBM Watson
Command received: lighton
LIGHT ON
Published data {'temperature': 28, 'ph': 35, 'conductivity': 56, 'oxygen': 44, 'turbidity': 63} to IBM Watson

FIGURE3: PYTHON IDLE SOFTWARE OUTPUT WHEN LIGHT ON BUTTON ON WEB UIIS PRESSED
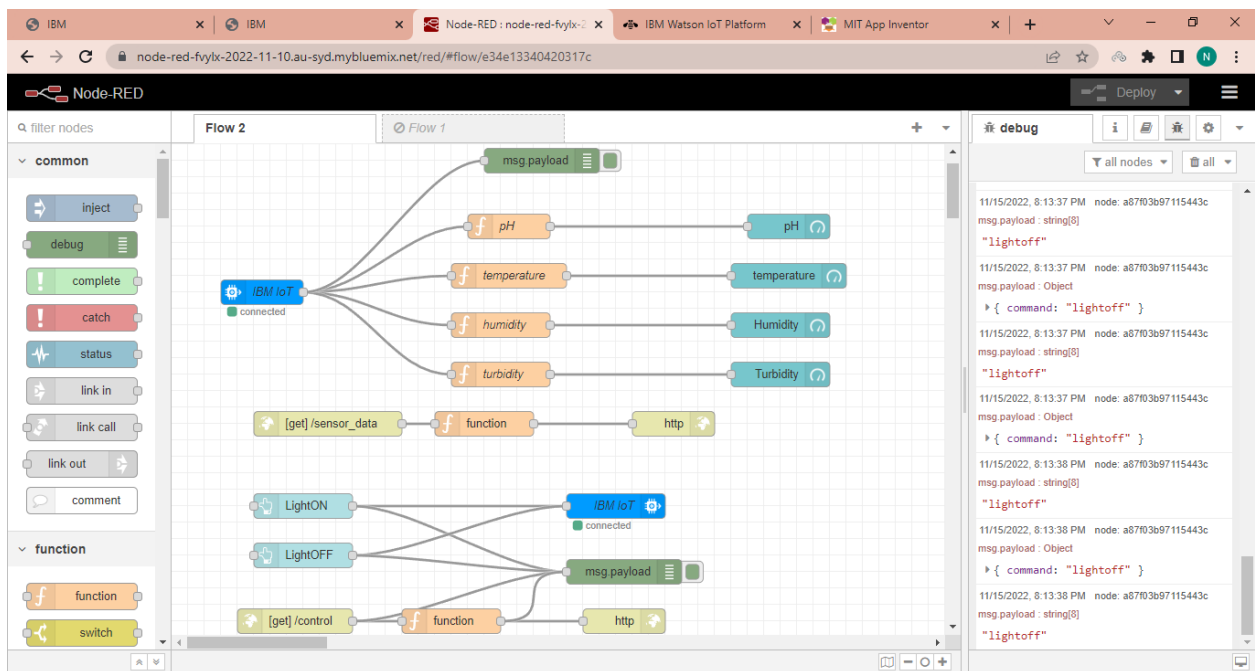

FIGURE4: WHEN LIGHTOFF BUTTON IS PRESSED ON THE WEB UI

```
*Python 3.7.0 Shell*
File  Edit  Shell  Debug  Options  Window  Help

Published data {'temperature': 56, 'ph': 47, 'conductivity': 41, 'oxygen': 46, 'turbidity': 0} to IBM Watson
Published data {'temperature': 70, 'ph': 36, 'conductivity': 20, 'oxygen': 3, 'turbidity': 44} to IBM Watson
Published data {'temperature': 92, 'ph': 22, 'conductivity': 65, 'oxygen': 29, 'turbidity': 19} to IBM Watson
Published data {'temperature': 94, 'ph': 16, 'conductivity': 16, 'oxygen': 93, 'turbidity': 10} to IBM Watson
Published data {'temperature': 4, 'ph': 12, 'conductivity': 96, 'oxygen': 16, 'turbidity': 42} to IBM Watson
Published data {'temperature': 23, 'ph': 82, 'conductivity': 68, 'oxygen': 83, 'turbidity': 10} to IBM Watson
Published data {'temperature': 12, 'ph': 3, 'conductivity': 50, 'oxygen': 96, 'turbidity': 62} to IBM Watson
Published data {'temperature': 41, 'ph': 93, 'conductivity': 96, 'oxygen': 44, 'turbidity': 7} to IBM Watson
Published data {'temperature': 60, 'ph': 72, 'conductivity': 48, 'oxygen': 9, 'turbidity': 16} to IBM Watson
Published data {'temperature': 99, 'ph': 26, 'conductivity': 7, 'oxygen': 7, 'turbidity': 8} to IBM Watson
Command received: lightoff
LIGHT OFF
Command received: lightoff
LIGHT OFF
Published data {'temperature': 93, 'ph': 32, 'conductivity': 50, 'oxygen': 57, 'turbidity': 93} to IBM Watson
Published data {'temperature': 90, 'ph': 26, 'conductivity': 22, 'oxygen': 61, 'turbidity': 64} to IBM Watson
Command received: lightoff
LIGHT OFF
Published data {'temperature': 76, 'ph': 18, 'conductivity': 73, 'oxygen': 79, 'turbidity': 84} to IBM Watson
Command received: lightoff
LIGHT OFF
Command received: lightoff
LIGHT OFF
Command received: lightoff
LIGHT OFF
Command received: lightoff
LIGHT OFF
Command received: lightoff
LIGHT OFF
Command received: lightoff
LIGHT OFF
Published data {'temperature': 45, 'ph': 36, 'conductivity': 0, 'oxygen': 36, 'turbidity': 20} to IBM Watson
Published data {'temperature': 70, 'ph': 61, 'conductivity': 89, 'oxygen': 39, 'turbidity': 39} to IBM Watson
Published data {'temperature': 94, 'ph': 81, 'conductivity': 91, 'oxygen': 35, 'turbidity': 99} to IBM Watson
Published data {'temperature': 33, 'ph': 80, 'conductivity': 39, 'oxygen': 95, 'turbidity': 68} to IBM Watson
Published data {'temperature': 59, 'ph': 36, 'conductivity': 3, 'oxygen': 1, 'turbidity': 73} to IBM Watson
Published data {'temperature': 97, 'ph': 12, 'conductivity': 35, 'oxygen': 95, 'turbidity': 96} to IBM Watson
Published data {'temperature': 58, 'ph': 21, 'conductivity': 98, 'oxygen': 22, 'turbidity': 77} to IBM Watson
Published data {'temperature': 87, 'ph': 89, 'conductivity': 13, 'oxygen': 49, 'turbidity': 2} to IBM Watson
Published data {'temperature': 7, 'ph': 55, 'conductivity': 79, 'oxygen': 69, 'turbidity': 86} to IBM Watson
```

FIGURE5: PYTHON IDLE SOFTWARE OUTPUT WHEN LIGHT OFF BUTTON ON WEB UIIS PRESSED