Project Development Phase

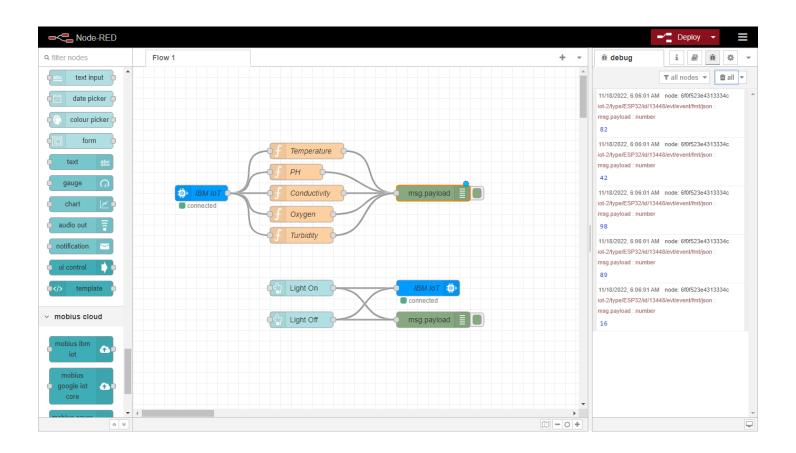
Sprint - 4

| Date | 19 Nov 2022 |
|---------------|-------------------------------|
| Team ID | PNT2022TMID06691 |
| Project Name | Real-Time River Water Quality |
| | Monitoring and Control System |
| Maximum Marks | 8 Marks |

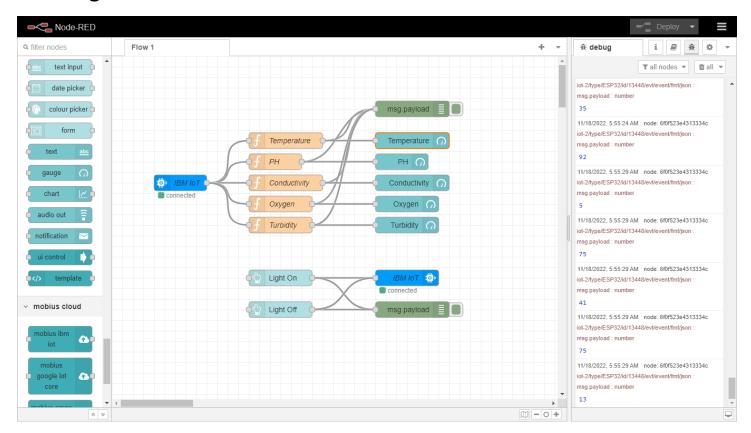
USN - 10: Create a Web UI using Node-red

As a user, I can create a Web UI, to access the data from the cloud and display all parameters.

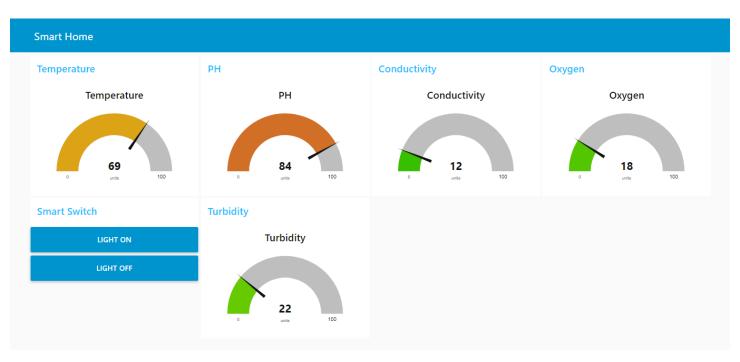
Creating web application in Node-Red:



Creating Web UI:



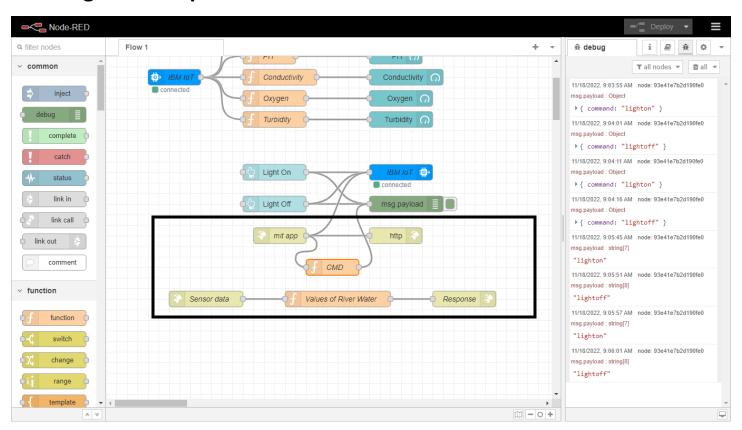
Web UI Dashboard:



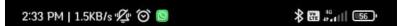
USN – 11: Connecting Node-red to Mobile Application

As a user, I can connect the node-red to the mobile application to display all the parameters in the mobile app

Creating HTTP Request:



Data in Mobile App:



Real-Time River Water Quality Monitoring and Control System

Temperature: 69

PH: 84

Conductivity: 12

Oxygen: 18

Turbidity: 22

Smart Switch

Motor ON

Motor OFF

Command Received in Python Shell when the button is Clicked:

