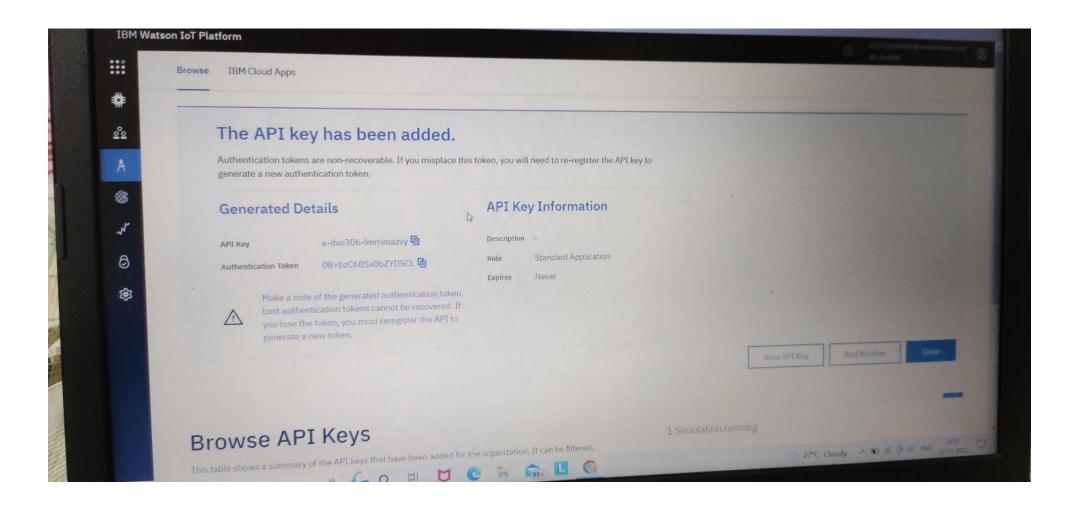
Project development phase

Sprint - 3

Date	17 November 2022
Team ID	PNT2022TMID26511
Project Name	Project - Industry-specific intelligent fire management system
Maximum Marks	20 marks

- ▼ IN Sprint 2 31 Oct 5 Nov (2 issues)
- IN-4 In industry, sensor sense the fire and smoke. SENSOR & ACTUATOR
- IN-5 If the sensor detected the fire, next step is extinguishing the fire with the help of Sprinkler. SENSOR & ACTUATOR
- ⇒ Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.



US-2 Create a Node-RED service

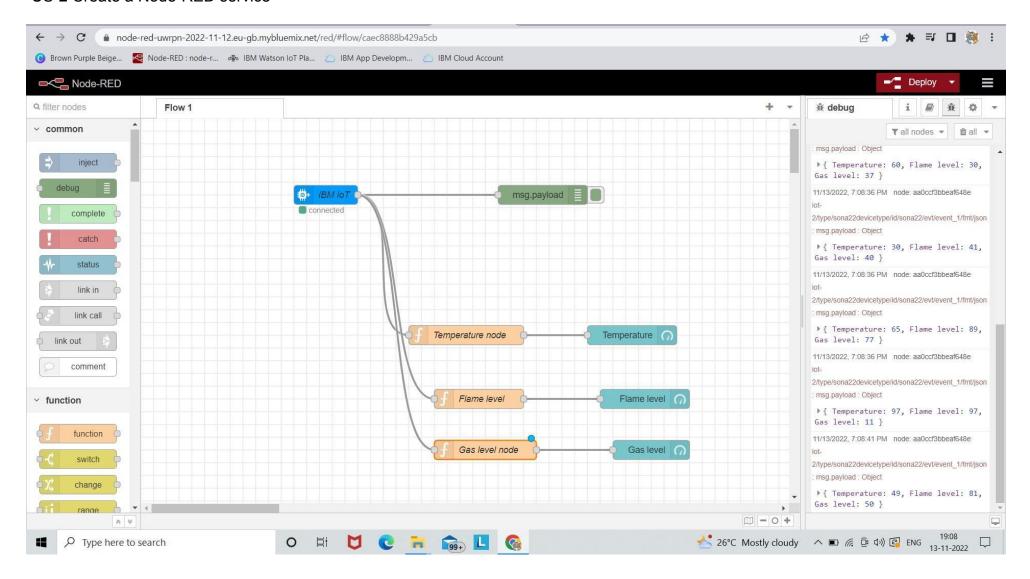
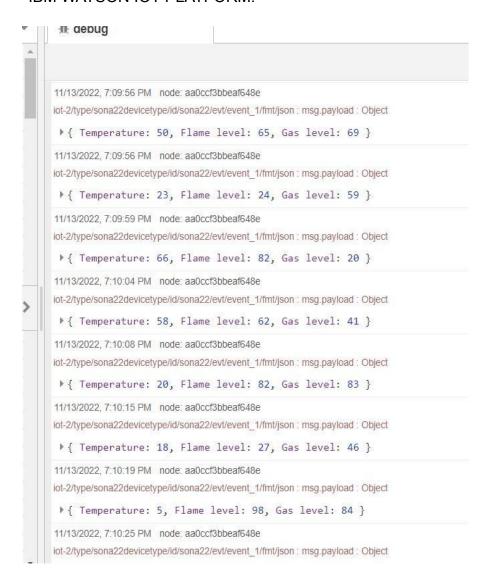


Fig1 - Monitoring the sensor values - Temperature, Flame Level, Gas Level. These values are randomly generated by IBM WATSON IOT PLATFORM.



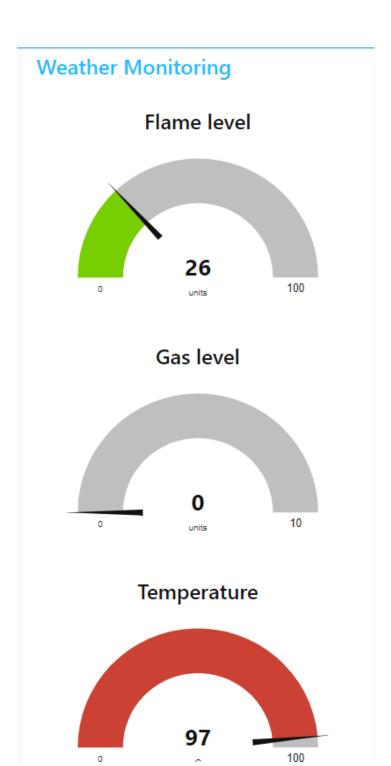


Fig 2 - Temperature, Flame Level, Gas Level values displayed in deploy tab in node-red

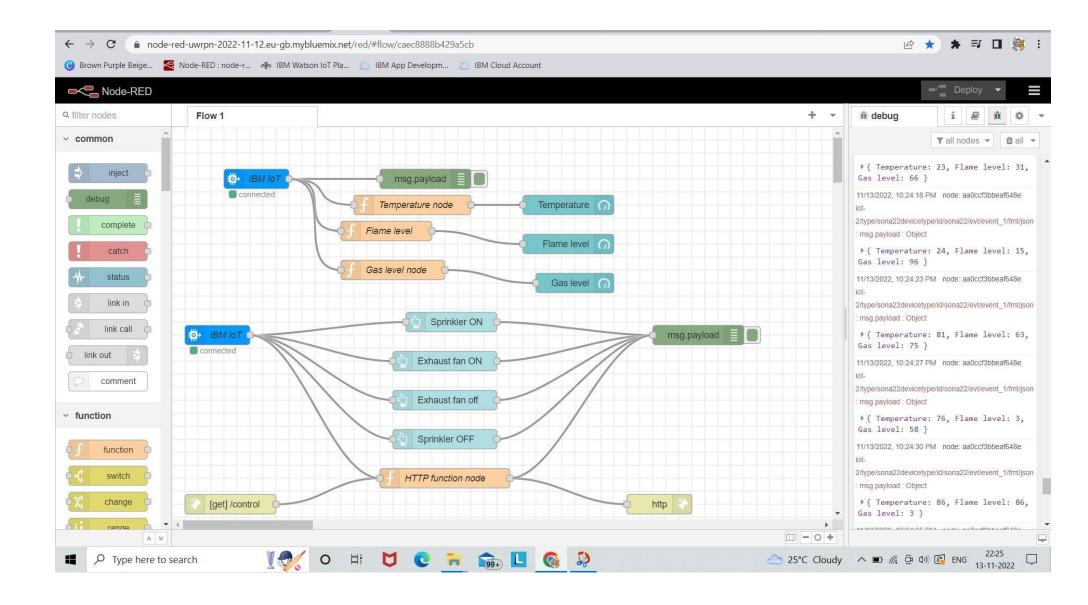


Fig 3 : Using HTTP in and HTTP response in network option ,https://node-red-uwrpn-2022-11-12.eu-gb.mybluemix.net/red/#flow/caec8888b429a5cb will display sensor values from the IBM WATSON IOT PLATFORM

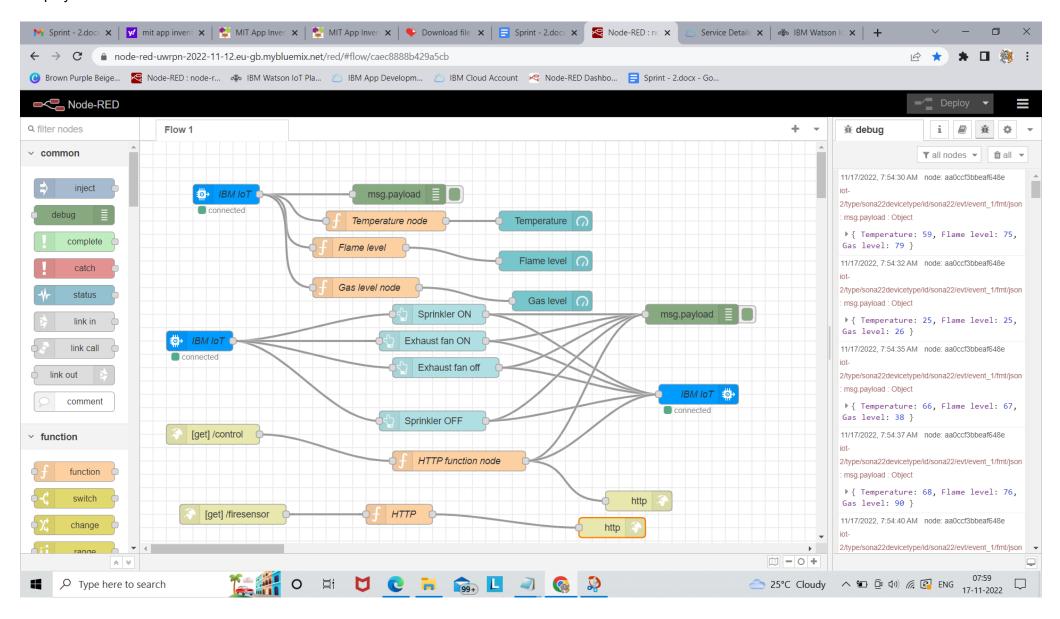


Fig 4: Monitoring the temperature ,flame and gas sensor

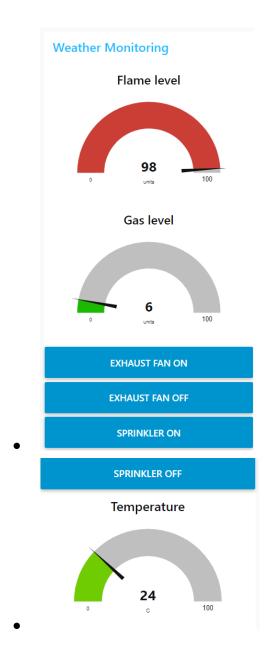


Fig 5: Properties of ibm iot node

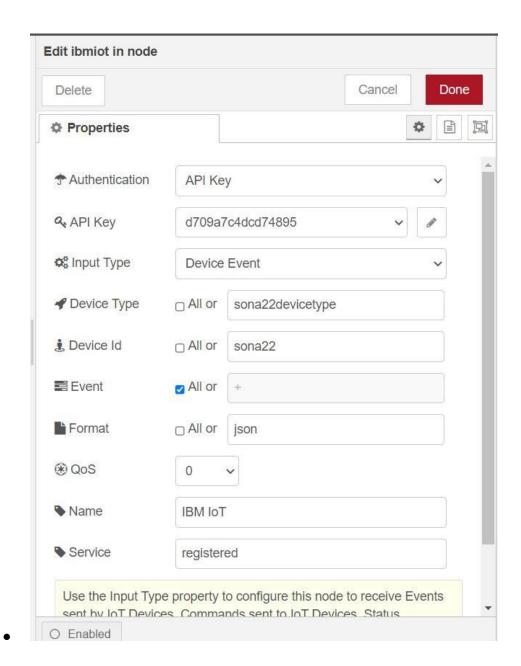


Fig 6 : Properties of temperature node

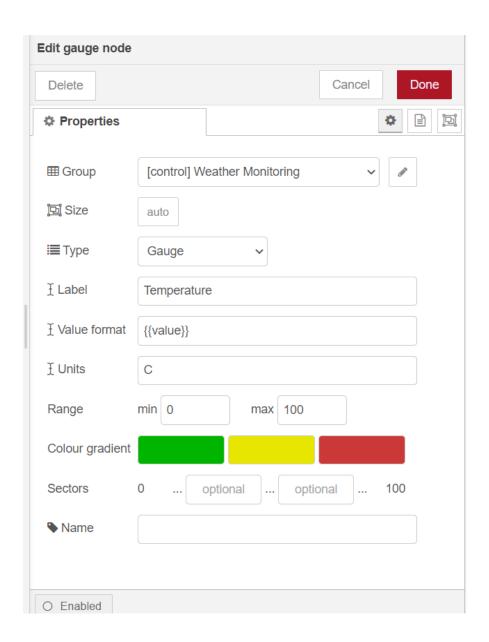


Fig 7: Properties of Flame

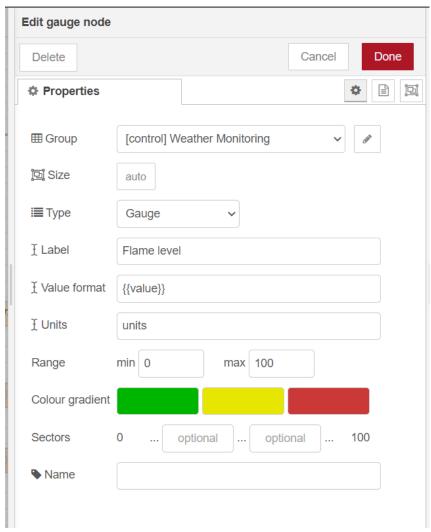


Fig 8: Properties of Gas level node

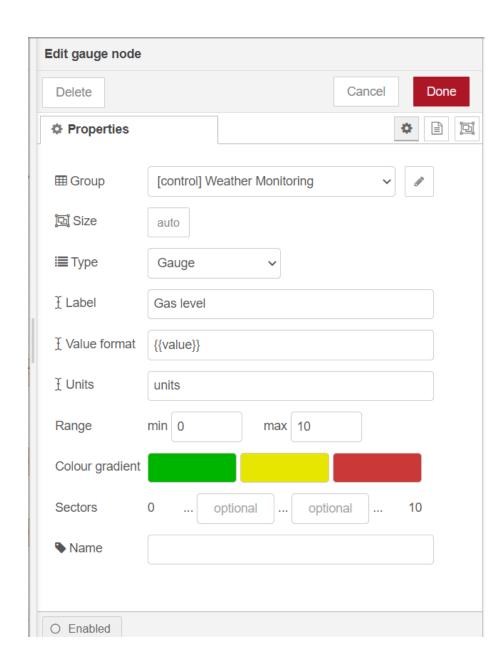
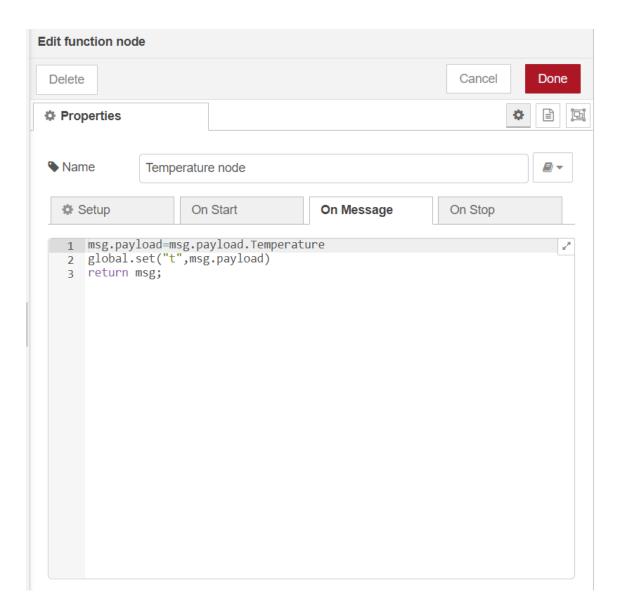
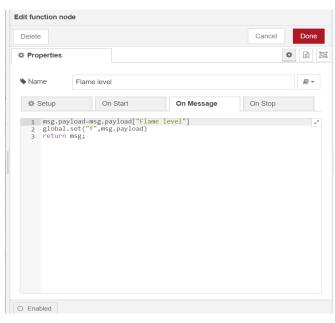


Fig 9 - Properties of IBM IOT are shown. The API key, Device Type, Device ID are taken from IBM IOT WATSON PLATFORM.





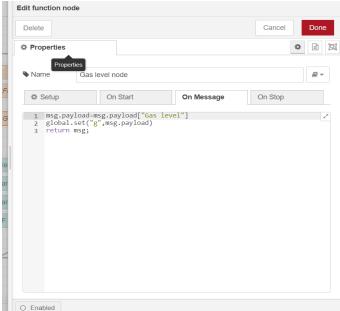


Fig 10 - Properties of HTTP request with method GET and url control

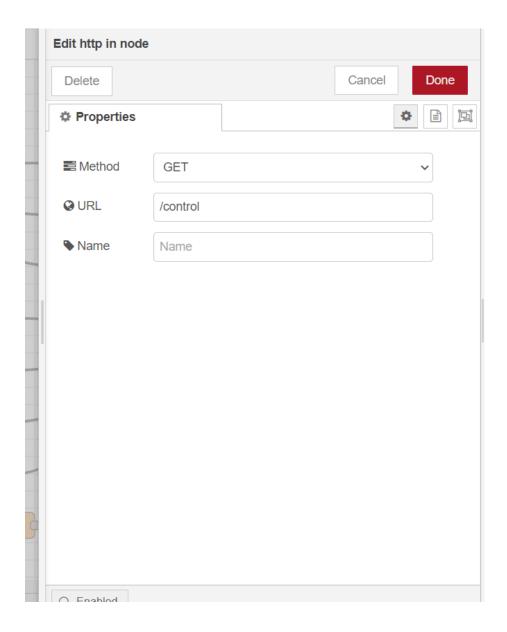
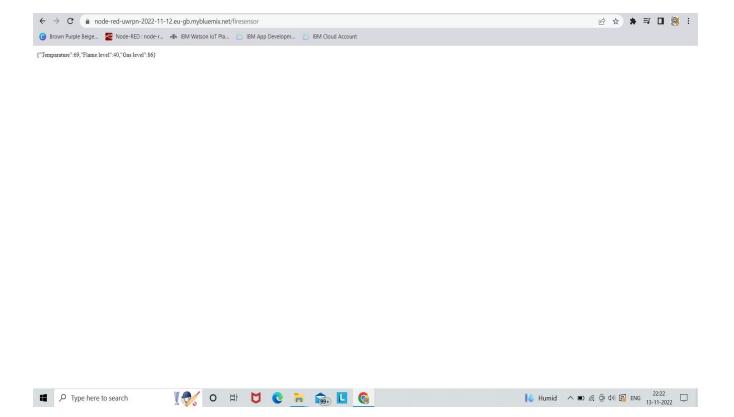


Fig 11: HTTP request OUTPUT



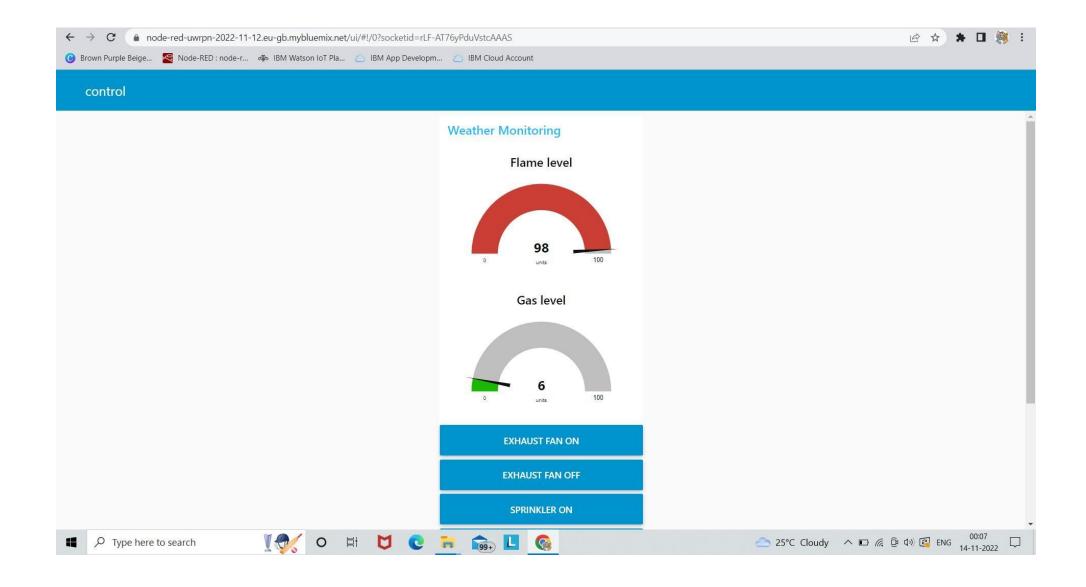


FIG 12: Front -end APP for our project to display the temperature ,smoke level and flame level with control buttons like Sprinkler ,exhaust fan on and off buttons

