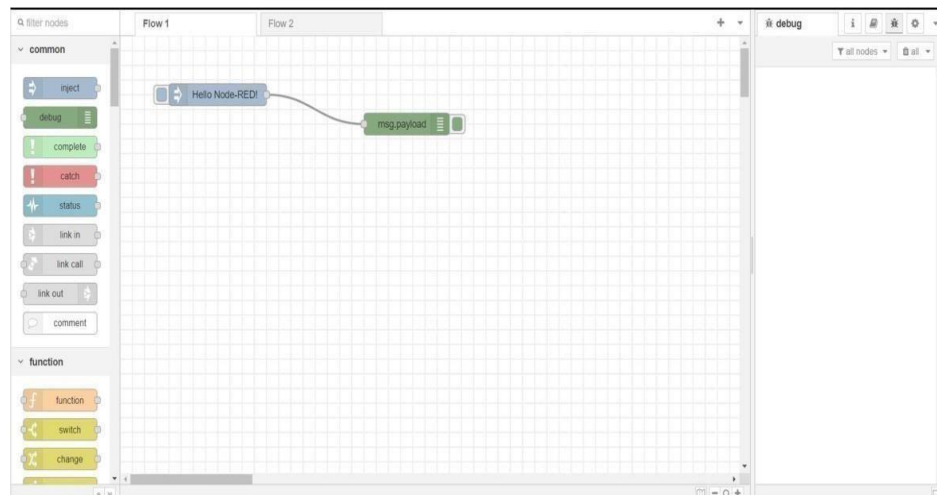


WEB APPLICATION USING NODE-RED

Date	3 November 2022
Team ID	PNT2022TMID52857
Project Name	IoT-Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	

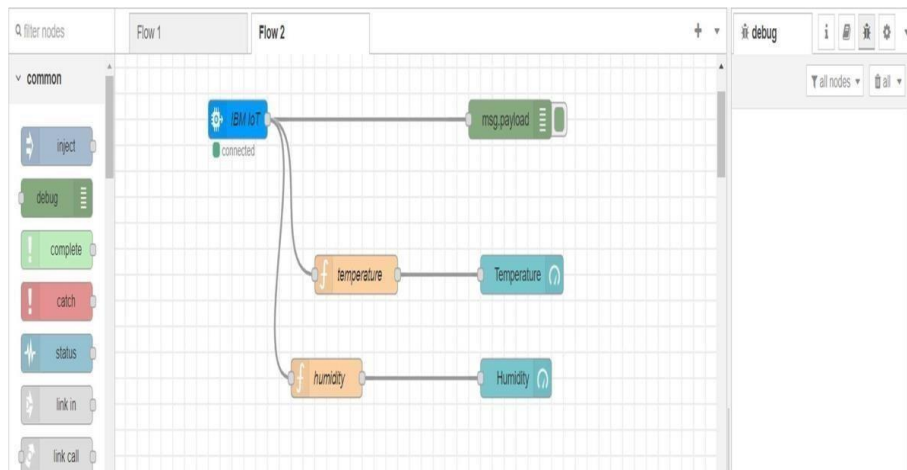
Node Red Flow To Get Data From Device

Configuring the Node-RED flow to receive data from the IBM IoT platform



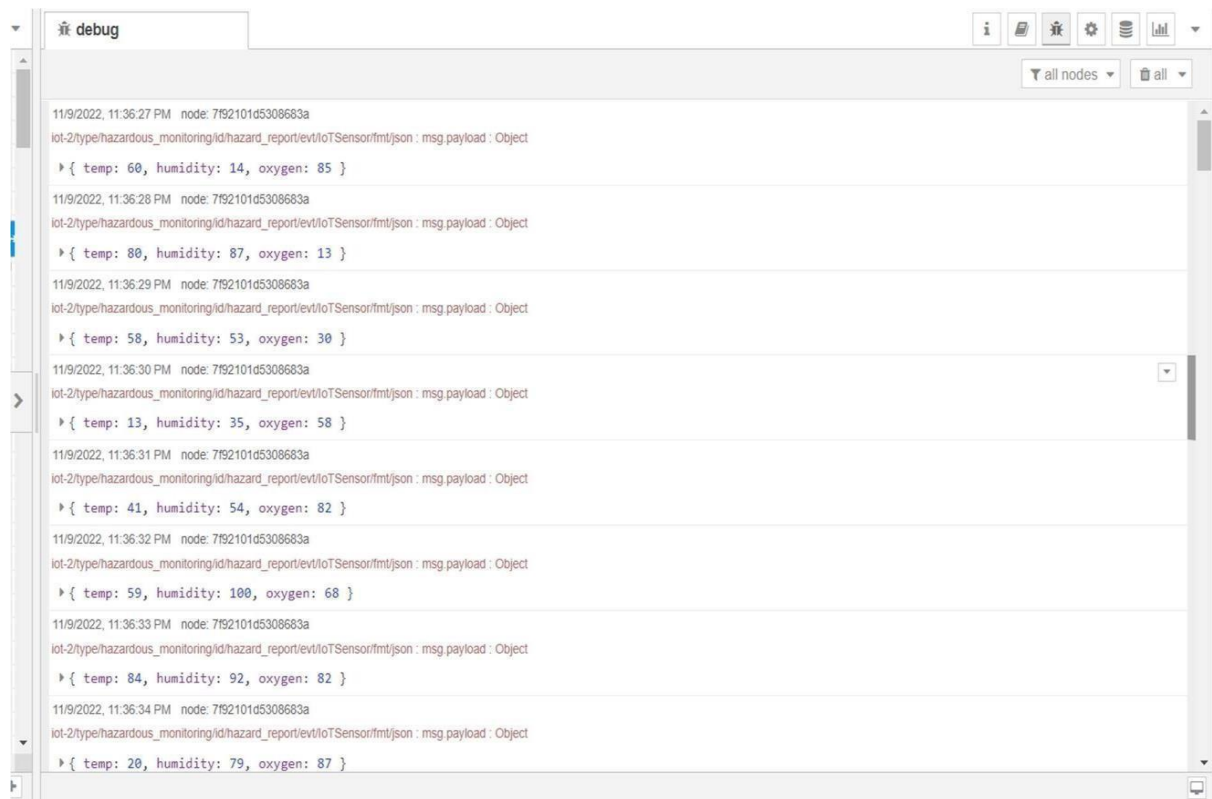
Node red configuration

The initial configuration of Node-red which is to added by the different components is shown.



Creating Node red initial flow

Adding different level of components to the IBM Node-red

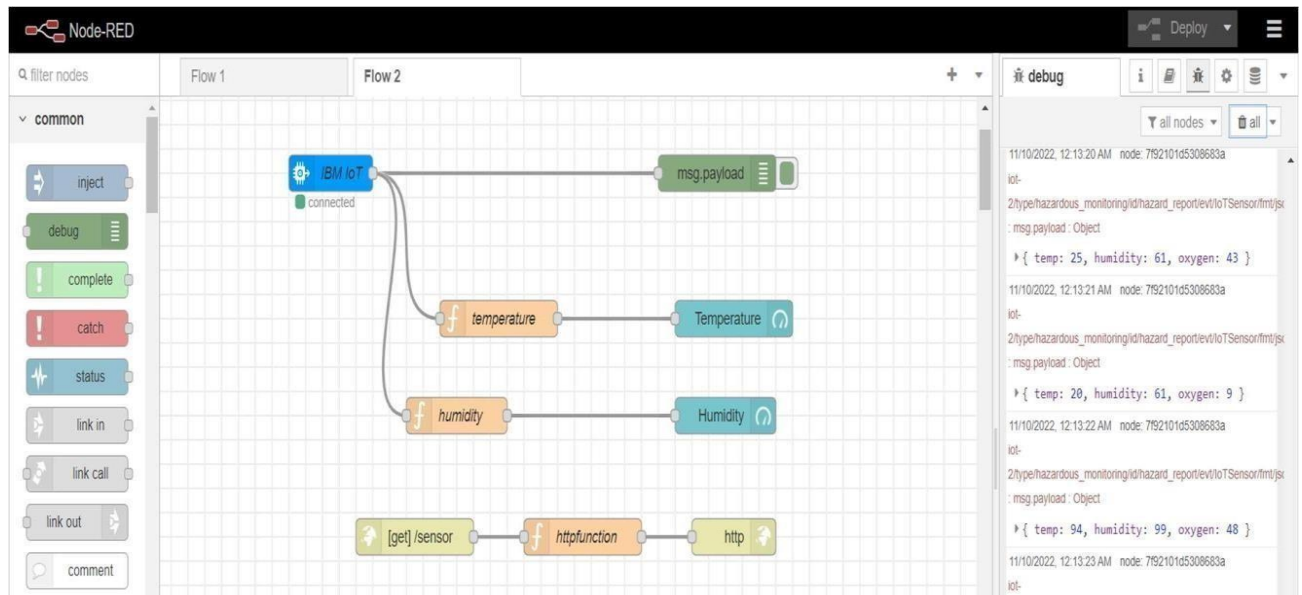


Debugging of Node red flow

The debugging of Node red flow diagram in the range to find the temperature, humidity and oxygen level of the sensors.

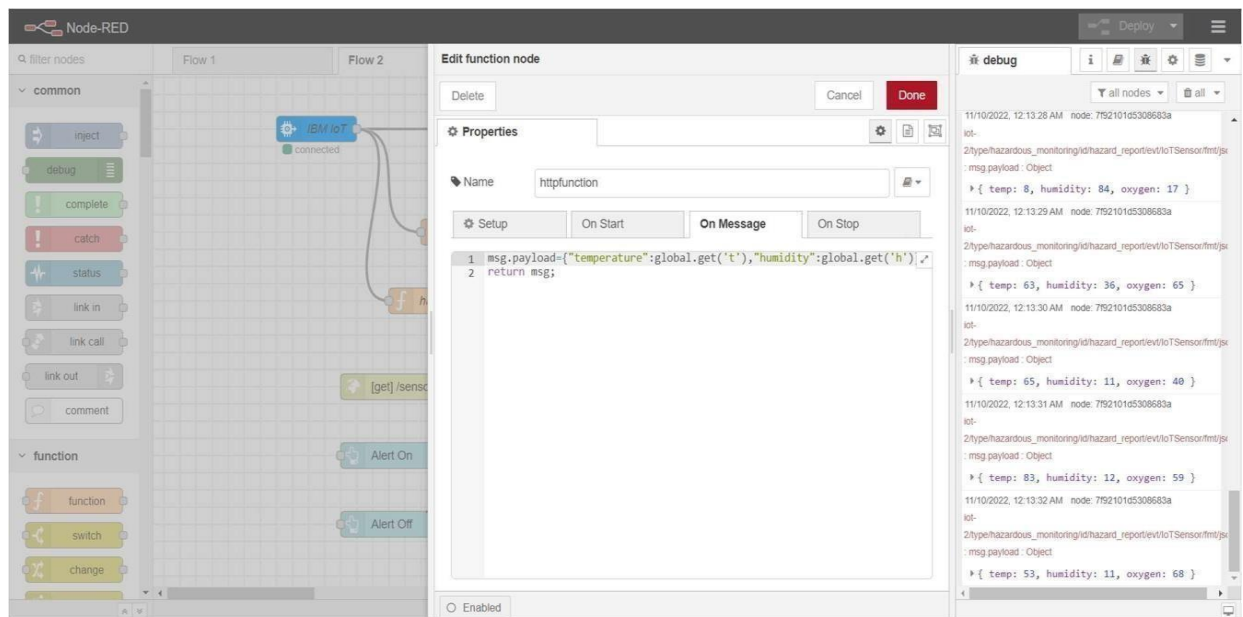
Creating HTTP Requests to Communicate With Mobile App

Creating an HTTP API for communicating with Mobile applications and also use Cloudant DB nodes to store the received sensor data in the Cloudant DB.



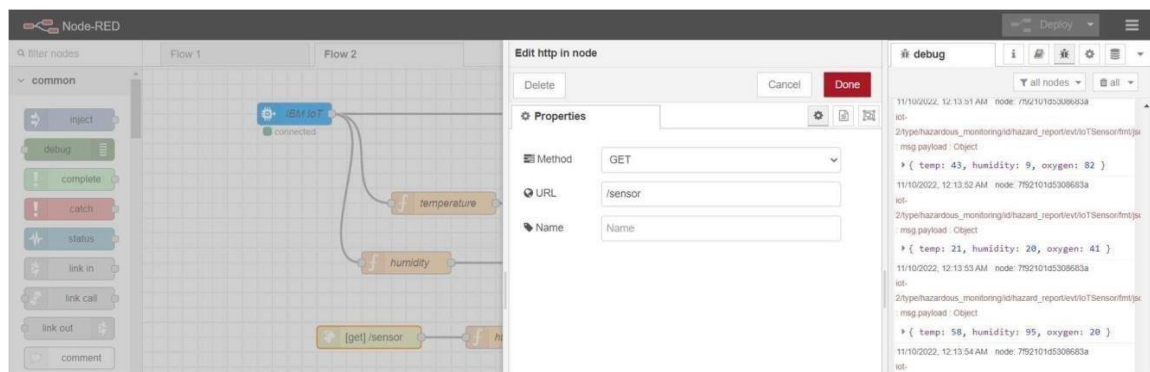
HTTP request to communicate

The HTTP request to communicate to the sensors and devices



Debugging of Functional Node 1

The debugging of functional node of the Node-red shows the level of the different sensors.



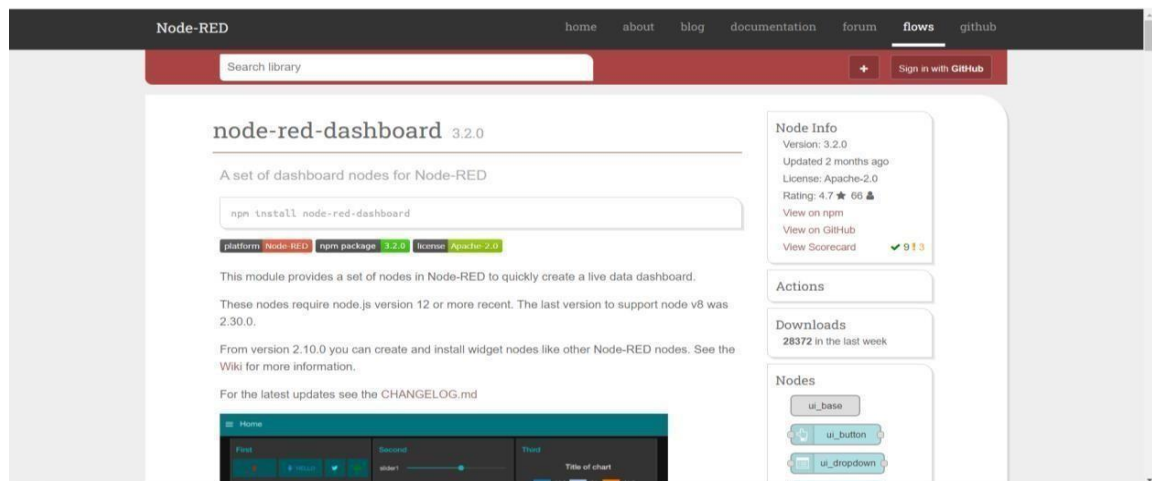
Deploying of function Node 2

The deploying of functional node in the IBM Node-red.

Using Dashboard Nodes For Creating UI(Web app)

- ❑ To create a dashboard using a template: Select a template from the DASHBOARD TEMPLATES list. Click Create Custom Dashboard. Name your dashboard. Click Create and Open.
- ❑ To create a dashboard without a template: Click Add Dashboard. . The New Dashboard page opens.

IBM Cognos Analytics can help you create visualizations and dash boards without needing a data science background



Creating dashboard in web UI

Creating dashboard in web UI to link the different components to the proposed system.