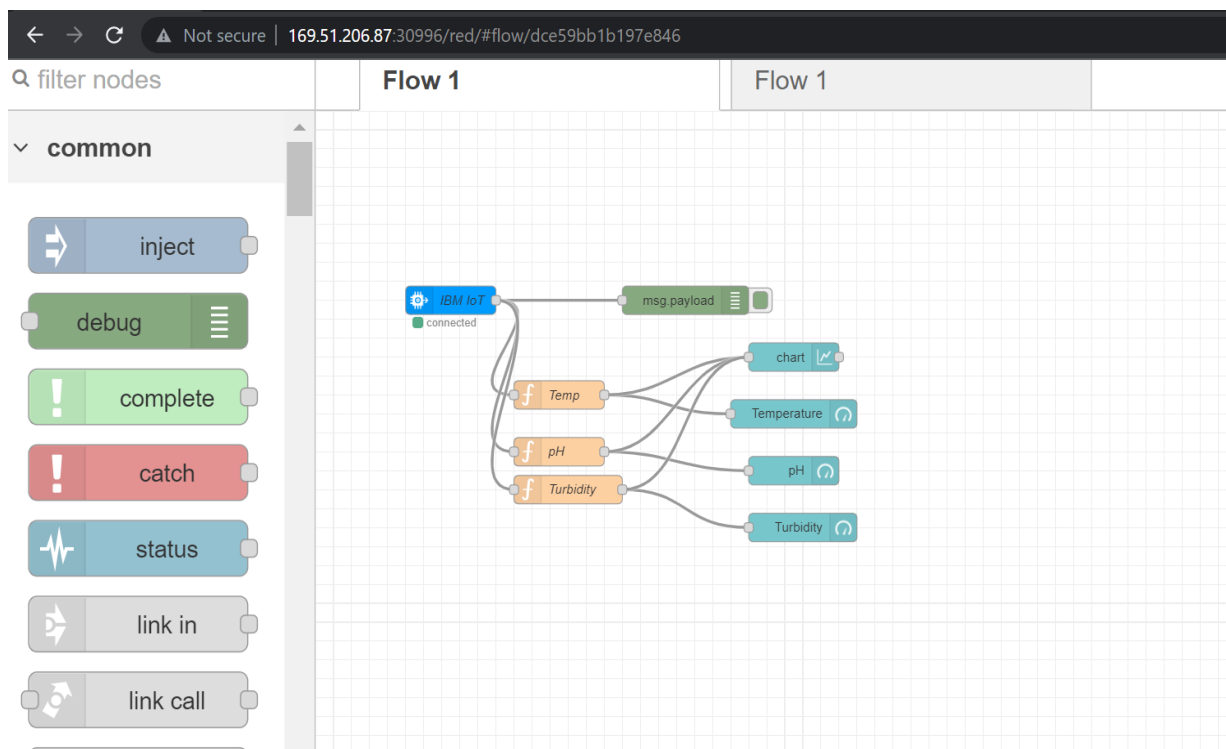


Project Development phase Sprint-2

Date	5 th November 2022
Team ID	PNT2022TMID35857
Project Name	Real-Time River Water Quality Monitoring and Control System

Design of web application using Node-Red

Using Dashboard nodes for create UI(Web application):



IBMIOT input node configuration:

Edit ibmiot in node

Delete Cancel Done

Properties

Authentication API Key

API Key IBMiotAPIKey

Input Type Device Event

Device Type ☐ All or Raspberry

Device Id ☐ All or 1234

Event ☒ All or +

Format ☒ All or json

QoS 0

Name IBM IoT

Service registered

Use the Input Type property to configure this node to receive Events sent by IoT Devices. Commands sent to IoT Devices. Status

☐ Enabled

Debug Node output:

debug

selected nodes all

11/8/2022, 2:54:40 PM node: 29e840d901135fd2
iot-2/type/Raspberry/id/1234/evt/event_1/fmt/json :
msg.payload : Object

{ Temperature: 39, pH: 8, turb: 2 }

11/8/2022, 2:54:43 PM node: 29e840d901135fd2
iot-2/type/Raspberry/id/1234/evt/event_1/fmt/json :
msg.payload : Object

{ Temperature: 42, pH: 10, turb: 2 }

11/8/2022, 2:54:46 PM node: 29e840d901135fd2
iot-2/type/Raspberry/id/1234/evt/event_1/fmt/json :
msg.payload : Object

{ Temperature: 40, pH: 5, turb: 2 }

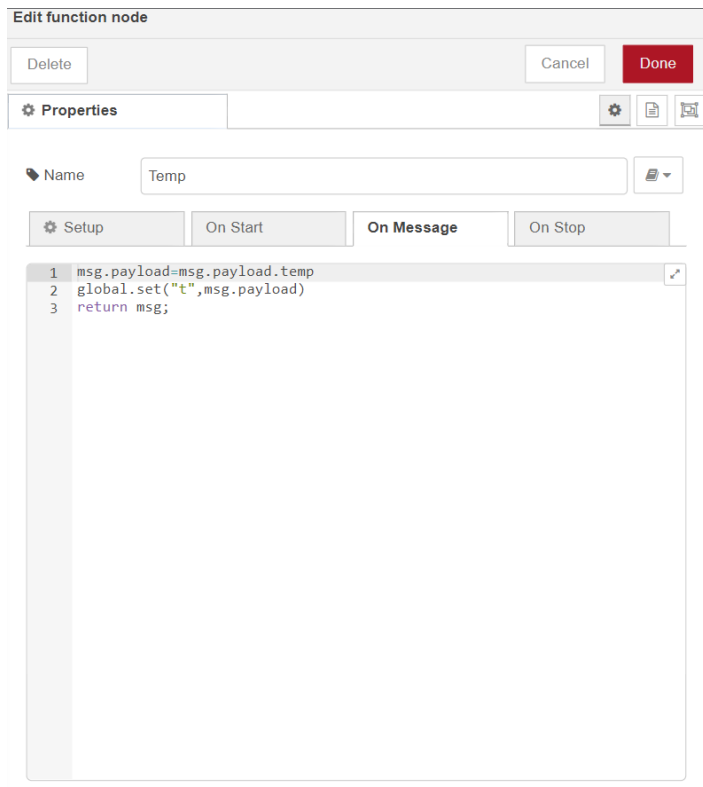
11/8/2022, 2:54:49 PM node: 29e840d901135fd2
iot-2/type/Raspberry/id/1234/evt/event_1/fmt/json :
msg.payload : Object

{ Temperature: 44, pH: 7, turb: 1 }

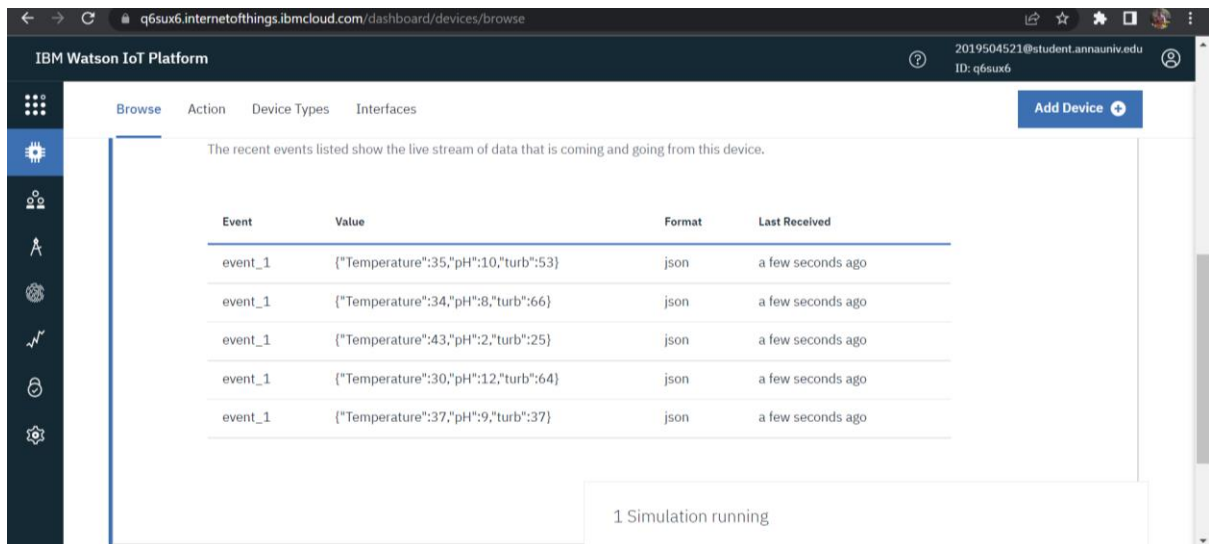
11/8/2022, 2:54:49 PM node: 29e840d901135fd2
iot-2/type/Raspberry/id/1234/evt/event_1/fmt/json :
msg.payload : Object

{ Temperature: 43, pH: 4, turb: 2 }

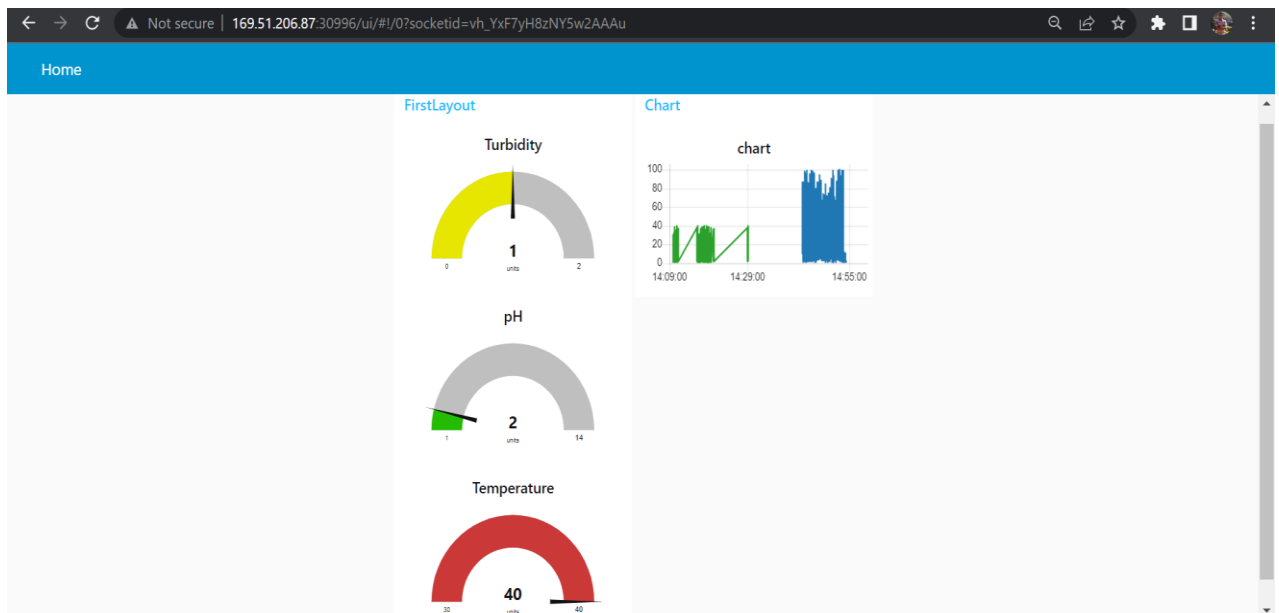
Temperature function node script:



IBM Watson IoT Platform (Sensor readings stored in cloud):



Web Application(User Interface):



Web UI link:

<http://169.51.206.87:30996/ui/#!/0?socketid=p-TNVt-UhTDbqF2CAAaw>