## **SPRINT 2**

Date	November 10, 2022
Team ID	PNT2022TMID25961
Project Name	Real-Time River Water Quality
	Monitoring and Control System
Maximum Mark	

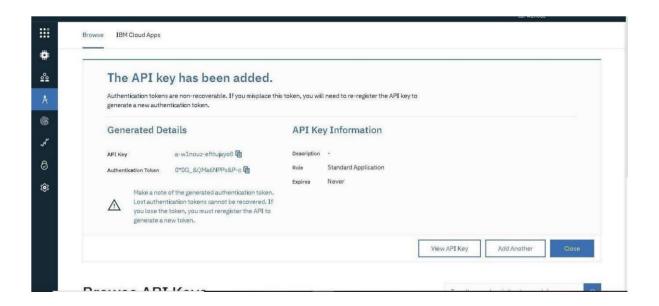
## The following steps are involved:

**STEP 1:** Download and Install node.js.

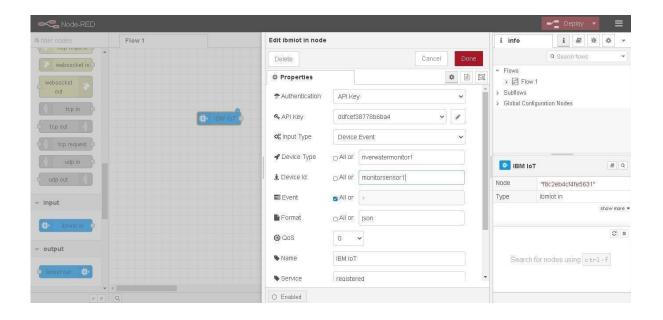


**STEP 2:** Setup node.js and configure command prompt for error check. Open node-red from the generated link.

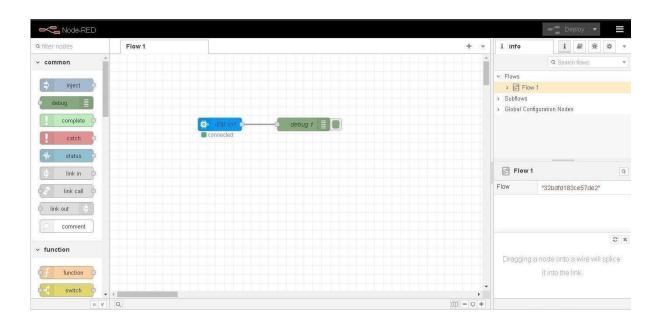
**STEP 3:** Generating API key and Authentication token.



**STEP 4:** Edit Ibmiot in node.



**STEP 5:** Connect Ibmiot in and debug 1 and deploy.



**STEP 6:** Edit gauge node (here the gauge nodes are named as Temperature, pH and Turbidity).

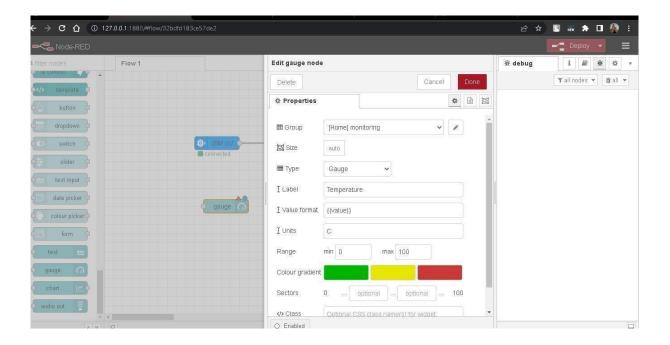


Fig 1

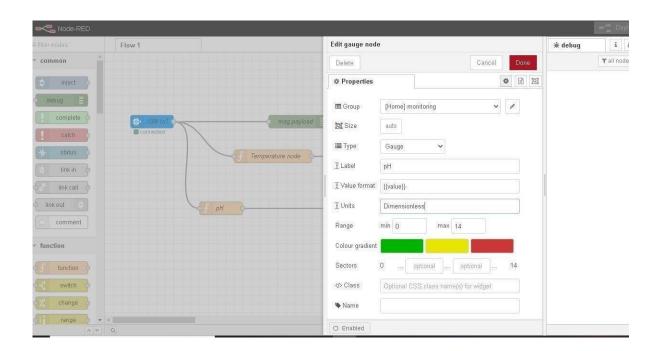


Fig 2

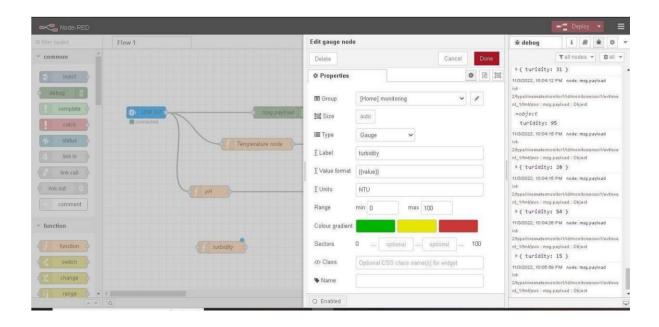
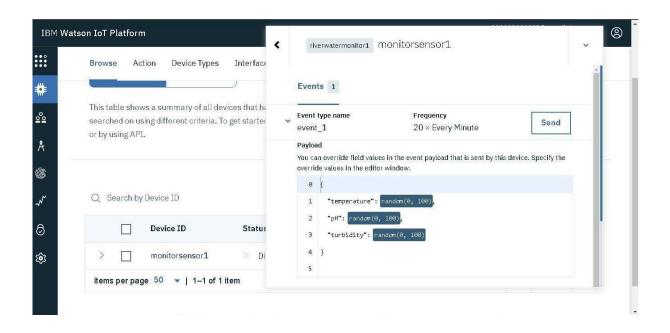
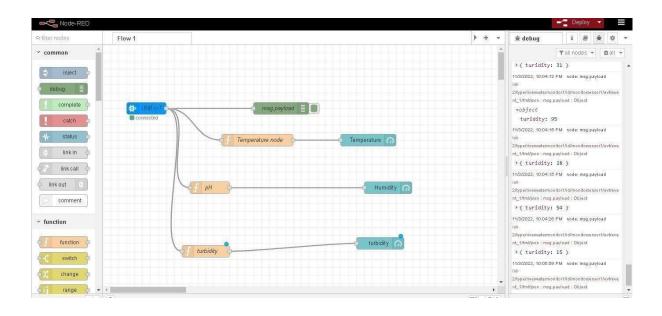


Fig 3

## **STEP 7:** Simulated program to get the random values.



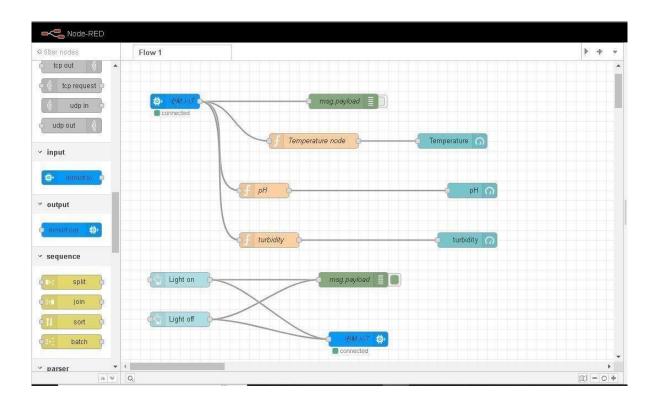
**STEP 8:** Generate debug message from IBM Watson IoT Platform and connect the nodes.



**STEP 9:** Edit button mode [light ON and light OFF].



**STEP 10:** Entire flow diagram in Node-RED.



**STEP 11:** Generate the output from recent events.





STEP 12: Implementing url in the function node to generate output.





## Step 13: MIT app inverter to design the app.

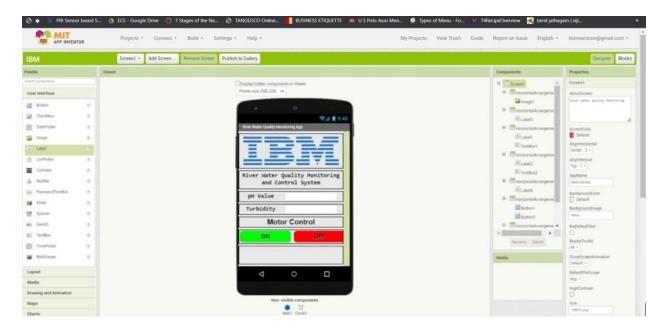


Fig 1

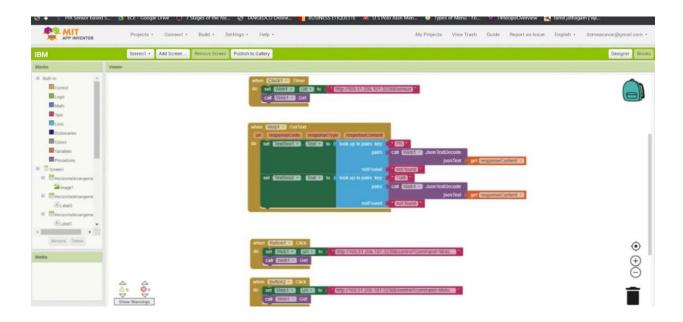


Fig 2



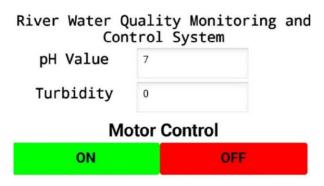


Fig 3