SPRINT 2

Date	November 17, 2022
Team ID	PNT2022TMID45388
Project Name	Real-Time River Water Quality
	Monitoring and Control System

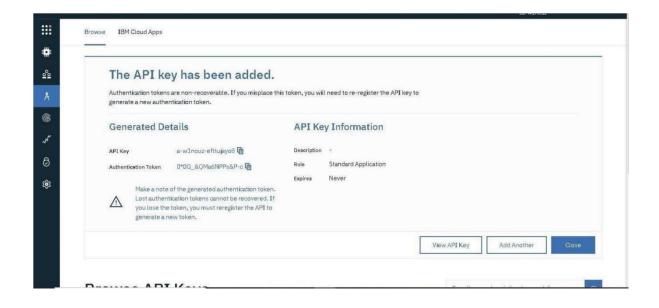
The following steps are involved:

STEP 1: Download and Install node.js.

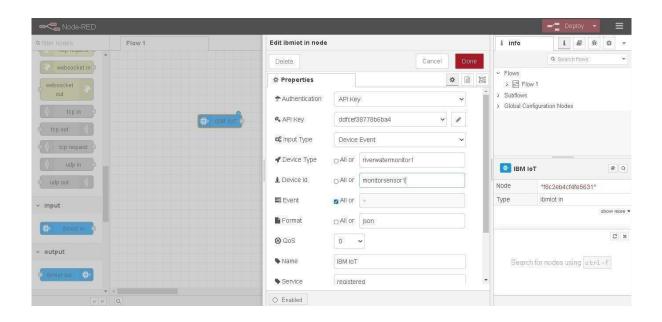


STEP 2: Setup node.js and configure command prompt for error check. Open node-red from the generated link.

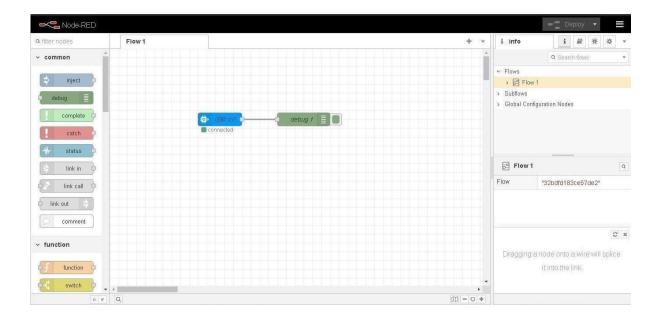
STEP 3: Generating API key and Authentication token.



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).

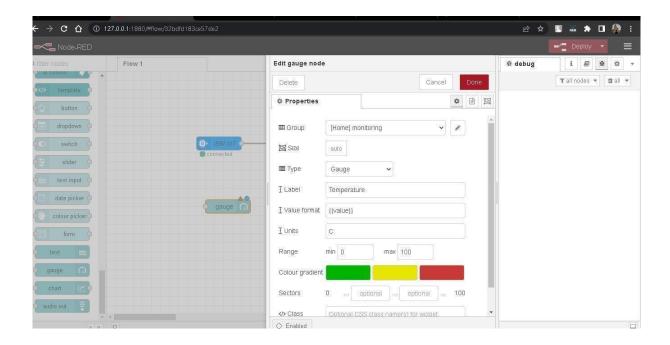


Fig 1

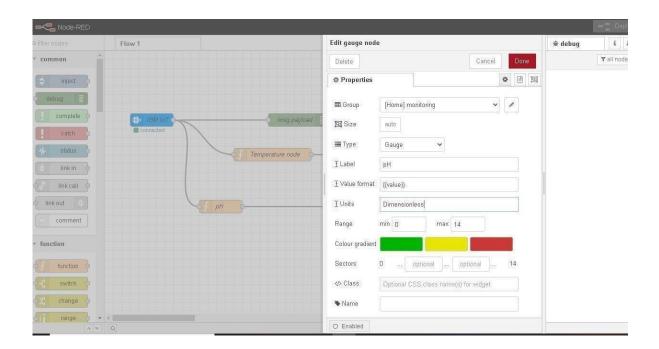


Fig 2

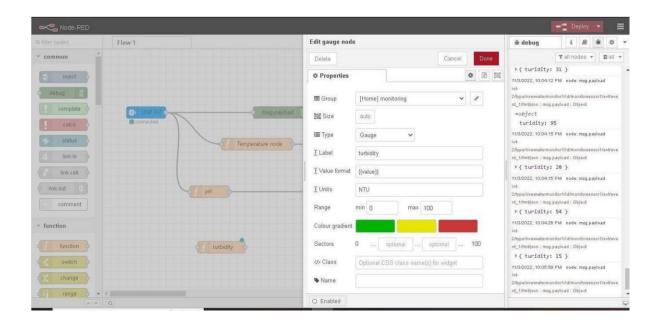
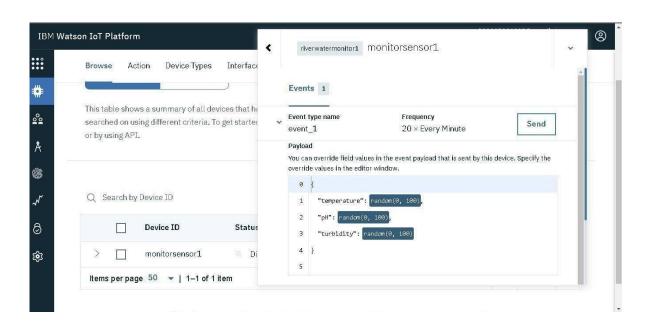
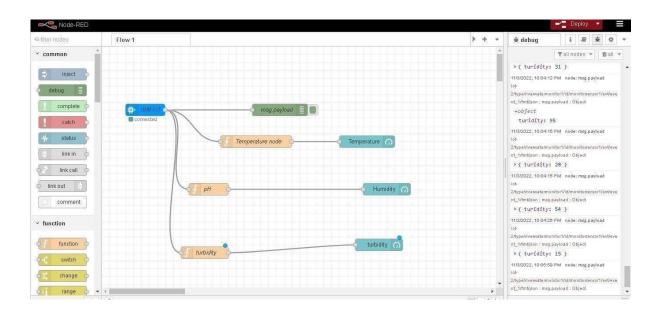


Fig 3

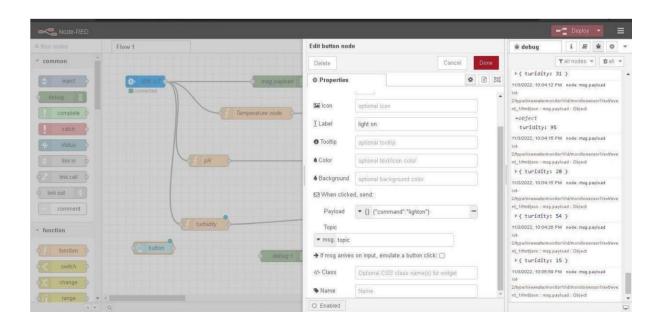
STEP 7: Simulated program to get the random values.



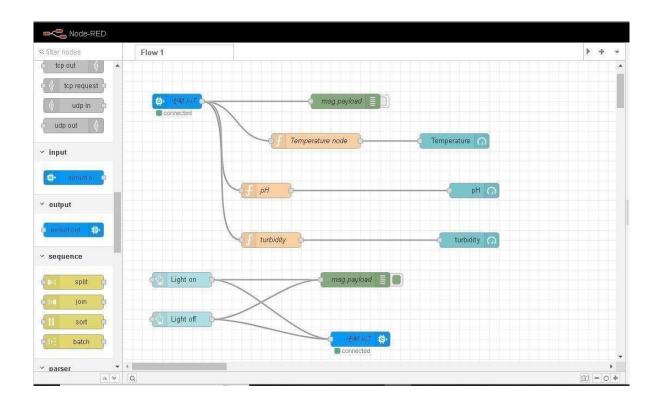
STEP 8: Generate debug message from IBM Watson IoT Platform and connect the nodes.



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



STEP 10: Entire flow diagram in Node-RED.



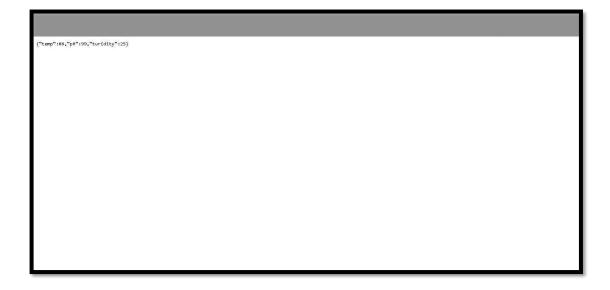
STEP 11: Generate the output from recent events.





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





Step 13: MIT app inverter to design the app.

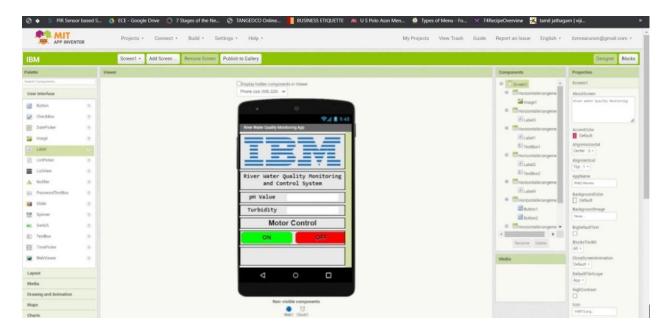


Fig 1

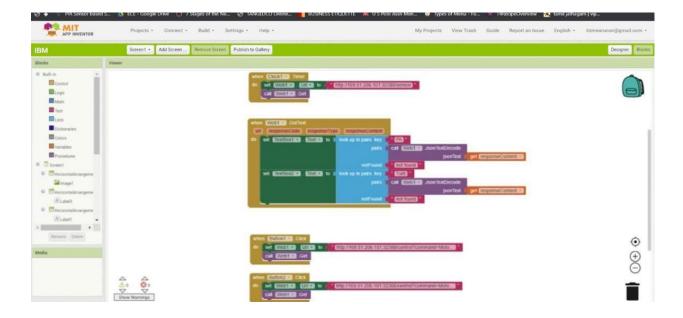
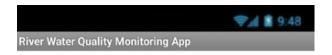


Fig 2



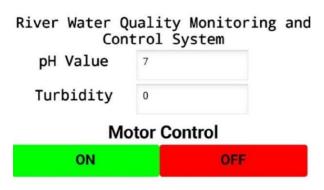


Fig 3