

# Coding and Solutioning

## Functional Features

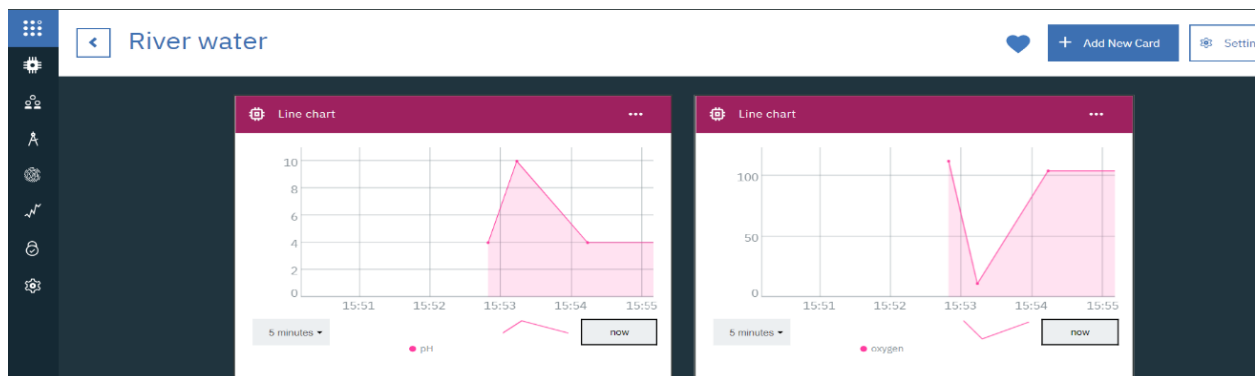
Date	19 November 2022
Team ID	PNT2022TMID51098
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

## FUNCTIONAL FEATURE 1

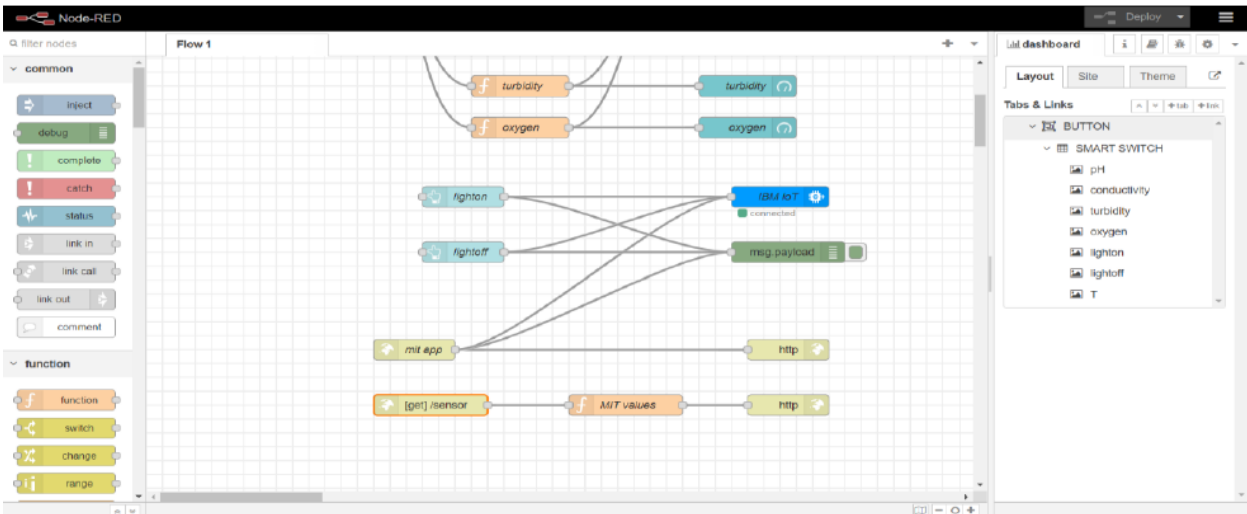
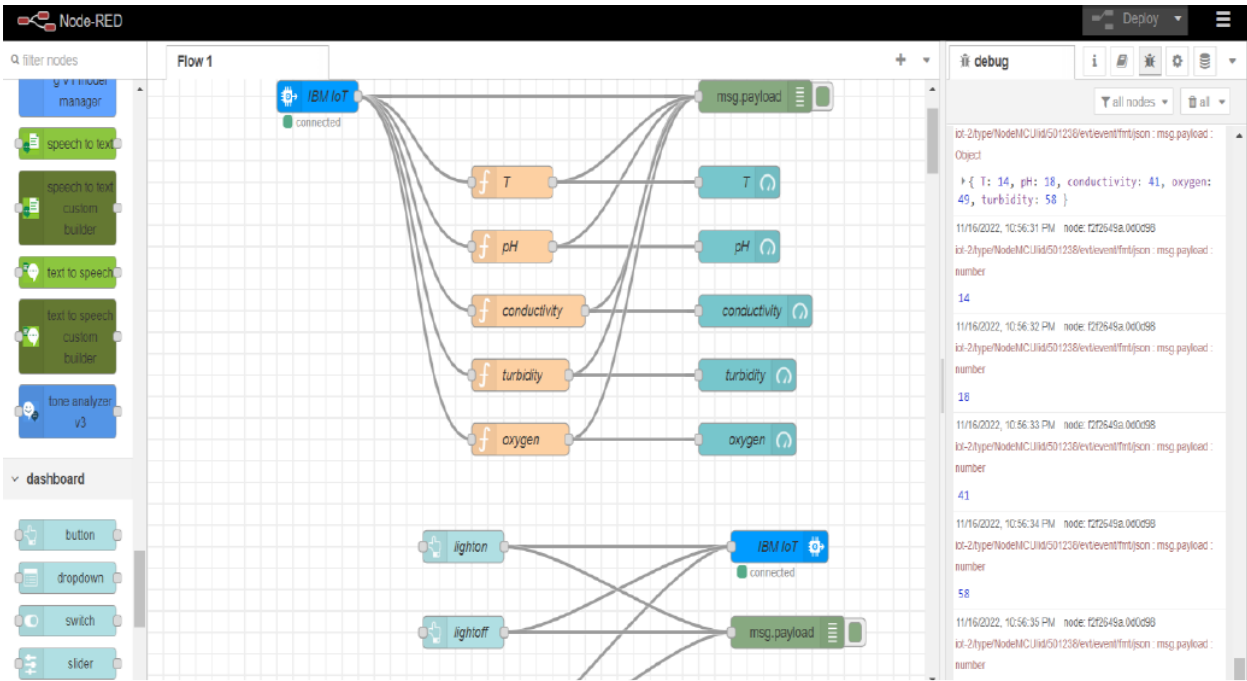
### IBM Watson

The screenshot displays the IBM Watson IoT Dashboard interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces', along with an 'Add Device' button. The main content area shows details for a specific device (ID: 501238) with a status of 'Connected'. Below this, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, showing a table of recent events with columns for Event, Value, Format, and Last Received. The table lists four events, each with a JSON string value and a timestamp of 'a few seconds ago'. A status indicator at the bottom right shows '1 Simulation running'.

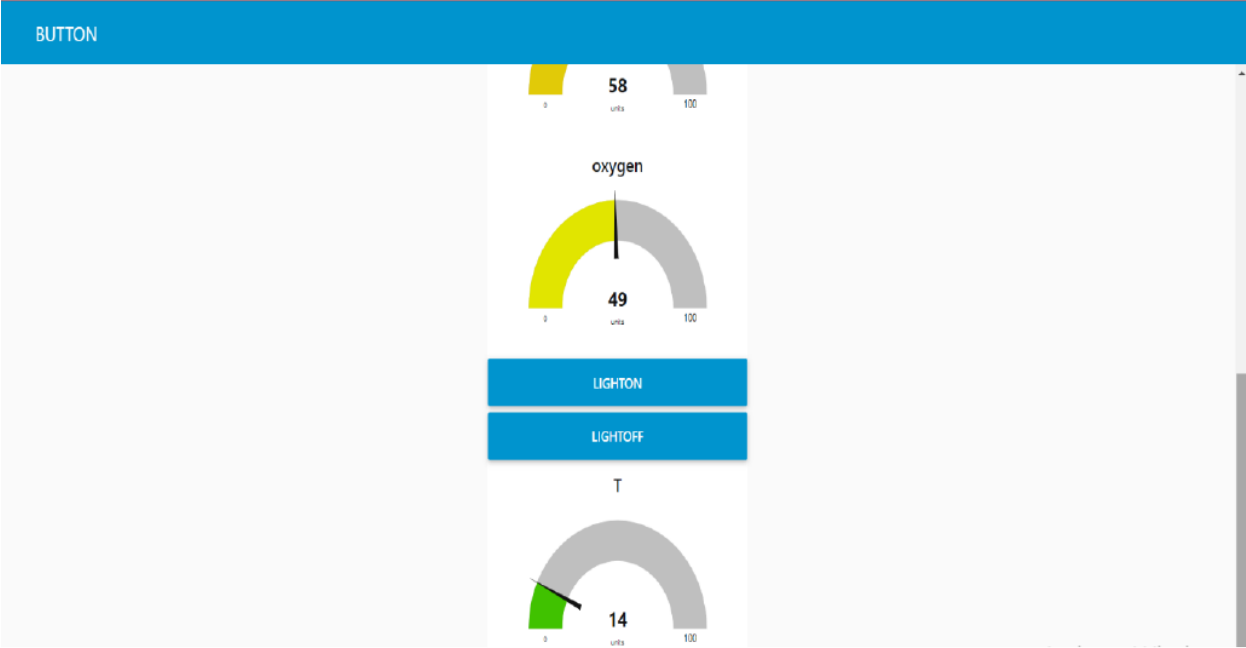
Event	Value	Format	Last Received
event	{"T":26,"pH":72,"conductivity":47,"oxygen":82,"t..."}	json	a few seconds ago
event	{"T":95,"pH":61,"conductivity":44,"oxygen":51,"t..."}	json	a few seconds ago
event	{"T":11,"pH":0,"conductivity":50,"oxygen":86,"t..."}	json	a few seconds ago
event	{"T":25,"pH":39,"conductivity":26,"oxygen":84,"t..."}	json	a few seconds ago



Node Red Service associated with IBM Cloud



Node Red Dashboard



## FUNCTIONAL FEATURE 2

### MIT APP Inventor

