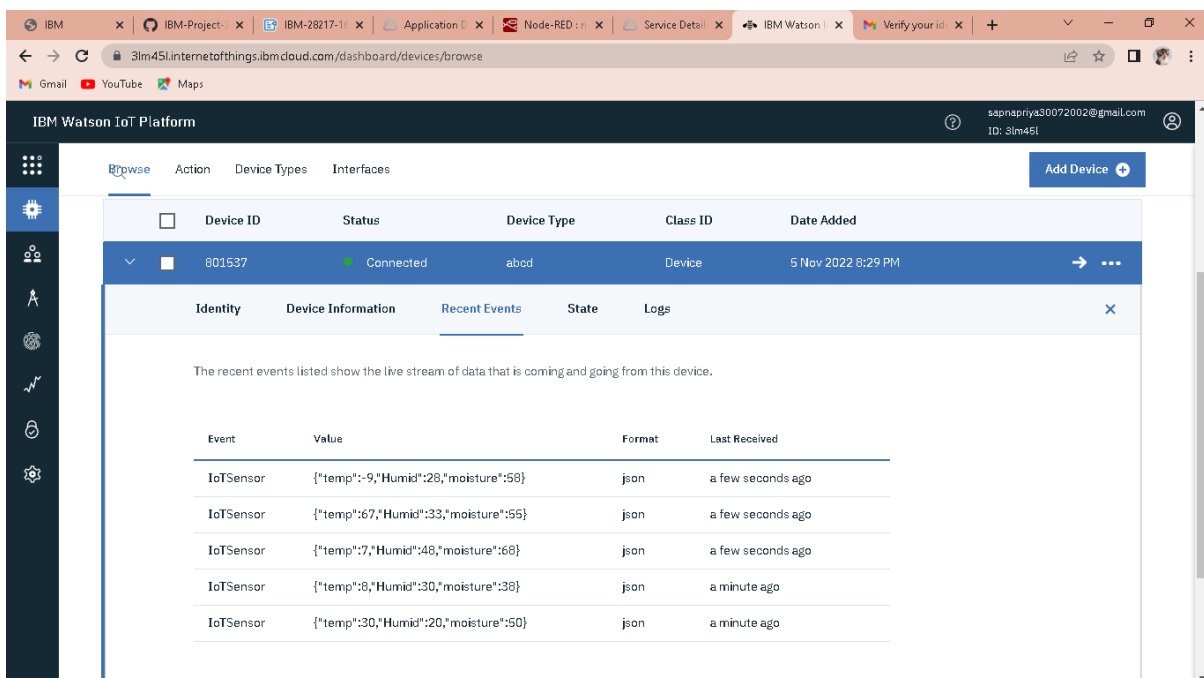


Team ID	PNT2022TMID30918
Project Name	Smart farmer - lot Enabled Smart Farming Application.
Team leader	Sapna Priya J
Team members	Sneha S , Pavithra P, Soundammal G

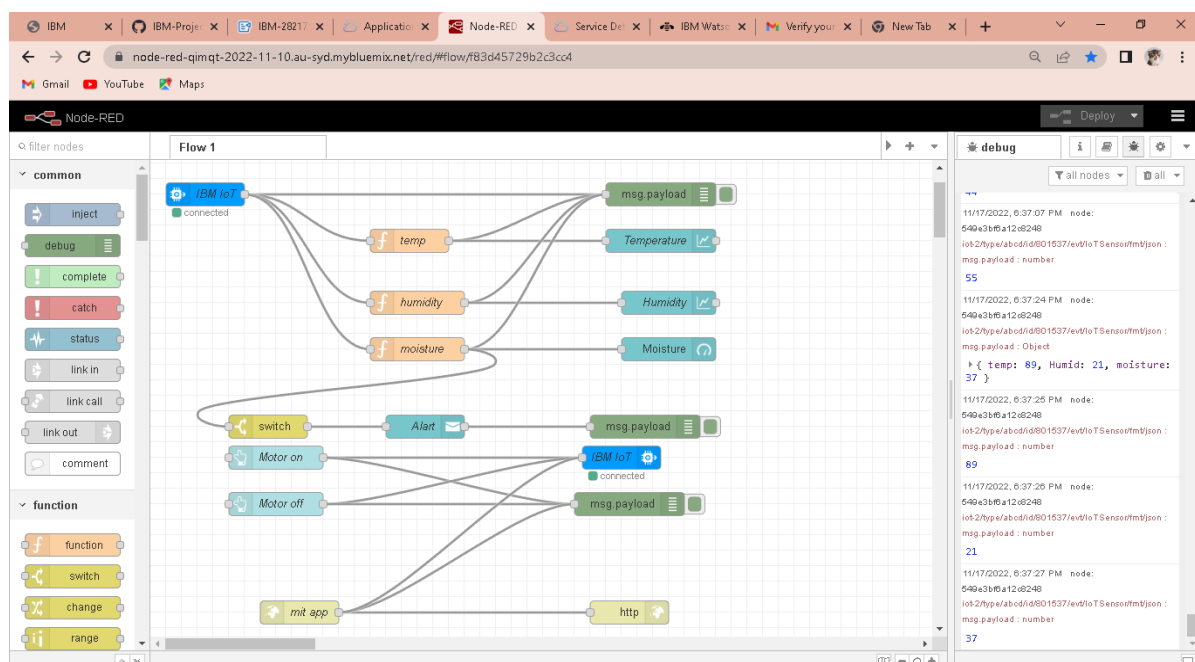
NODE RED TESTING

Environment parameter values are taken from IBM Cloud, which is given in the Python code. This value is shown on the node red dash board.



The screenshot shows the IBM Watson IoT Platform interface. The 'Browse' tab is active, displaying a table of devices. The selected device is 801537, which is connected and of type 'abcd'. Below the table, the 'Recent Events' tab is selected, showing a list of events received from the device. The events are JSON objects containing temperature, humidity, and moisture data.

Event	Value	Format	Last Received
IoTSensor	{"temp":9,"Humid":28,"moisture":58}	json	a few seconds ago
IoTSensor	{"temp":67,"Humid":33,"moisture":55}	json	a few seconds ago
IoTSensor	{"temp":7,"Humid":48,"moisture":68}	json	a few seconds ago
IoTSensor	{"temp":8,"Humid":30,"moisture":38}	json	a minute ago
IoTSensor	{"temp":30,"Humid":20,"moisture":50}	json	a minute ago



The screenshot shows the Node-RED web interface. A flow named 'Flow 1' is displayed. It starts with an 'IBM IoT' node connected to a 'msg.payload' node. The flow then branches into three parallel paths for 'temp', 'humidity', and 'moisture'. Each path uses a function node to extract the corresponding value from the payload and then connects to a 'msg.payload' node. These three paths converge into a single 'msg.payload' node. This node then connects to an 'Alert' node, which triggers a 'Motor on' or 'Motor off' action. The flow also includes a 'switch' node and an 'http' node for further processing.

Node Red sends the value of the environment parameters to the dashboard, which is our web application. On the dash board, if you click the motor on or motor off switch, commands are sent to the python code and node red. Node Red has been successfully tested and is operational.

