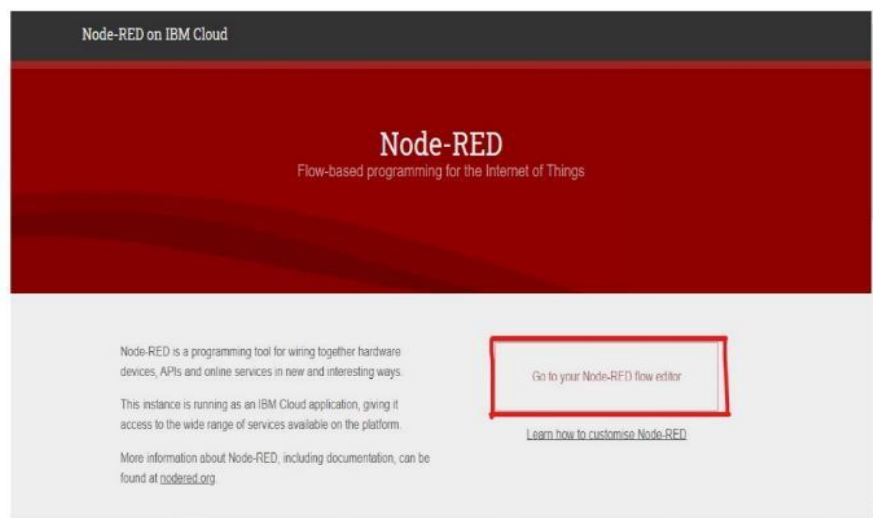


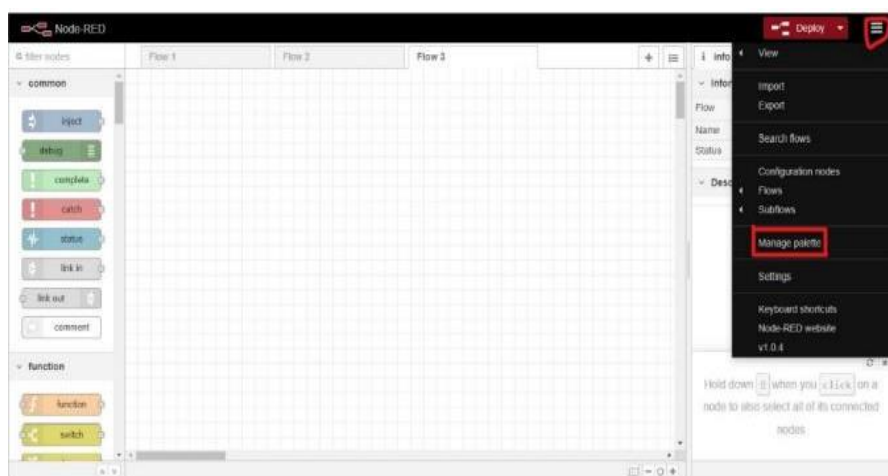
DEVELOPING WEB APPLICATION USING NODE-RED SERVICE

Team ID	PNT2022TMID08774
Project Name	IoT Based Smart Crop Protection System for Agriculture

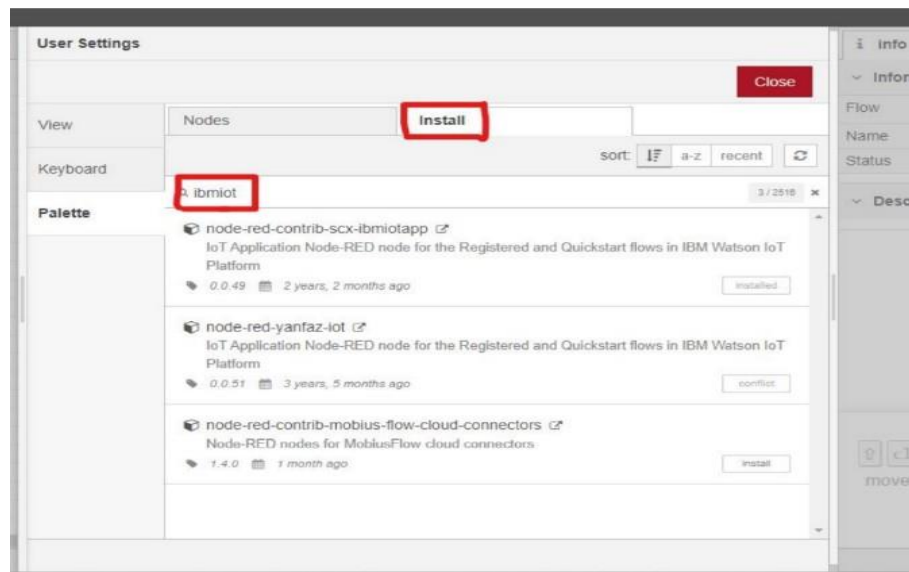
Step 1: Click on your Node-Red flow editor where you will be redirected to the Node-Red flow editor.



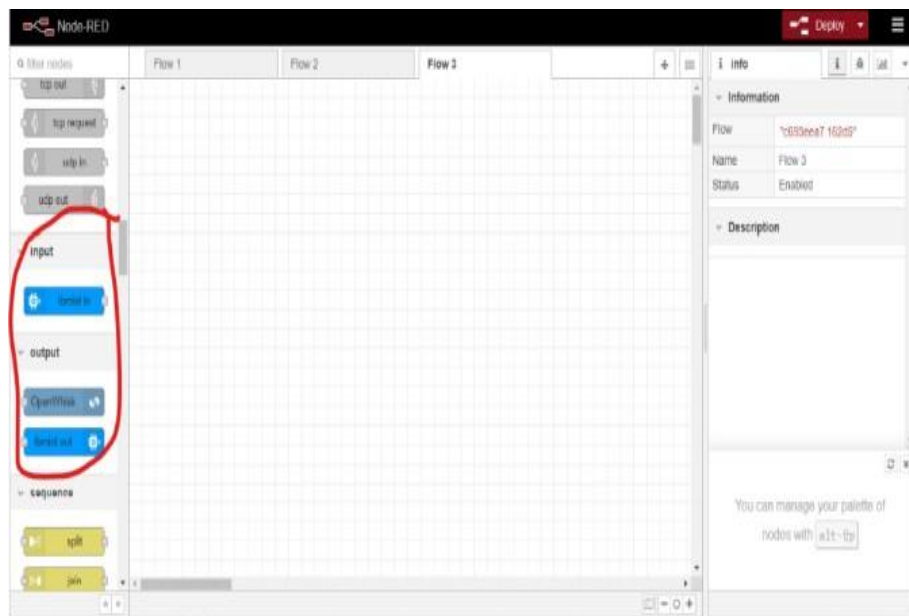
Step 2: To install IBM nodes in Node-Red flow editor click on manage palette in the new menu option which is on the top right on the screen.



Step 3: In Install section search for ibm Iot and install the ibm nodes to the flow editor.



Step 4: Search for IBM nodes in the filter nodes section.



Computer Vision | Applications | Clai | Service Details | Service Details | Cloudant Dashbo | Cloud Object Stor | Node-RED: node | Node-RED Dashbo |

node-red-ryne-2021-01-29.eu-gb.mybluemix.net/flow/586e12d1d4437ec

Node-RED

Deploy

filter nodes

Flow 2 | Flow 3 | Home Assistant | Crop protection | Child Tracker | Medicine Remin

common

- inject
- debug
- complete
- catch
- status
- link in
- link out
- comment

function

- function
- switch
- change
- range
- template

msg.payload

function

switch

Humidity

Temperature

Moisture Status in Soil

rbe

http request

msg.payload

http

msg.payload

template

Click on button to Get Image

http request

function

LIGHT ON

LIGHT OFF

MOTOR ON

MOTOR OFF

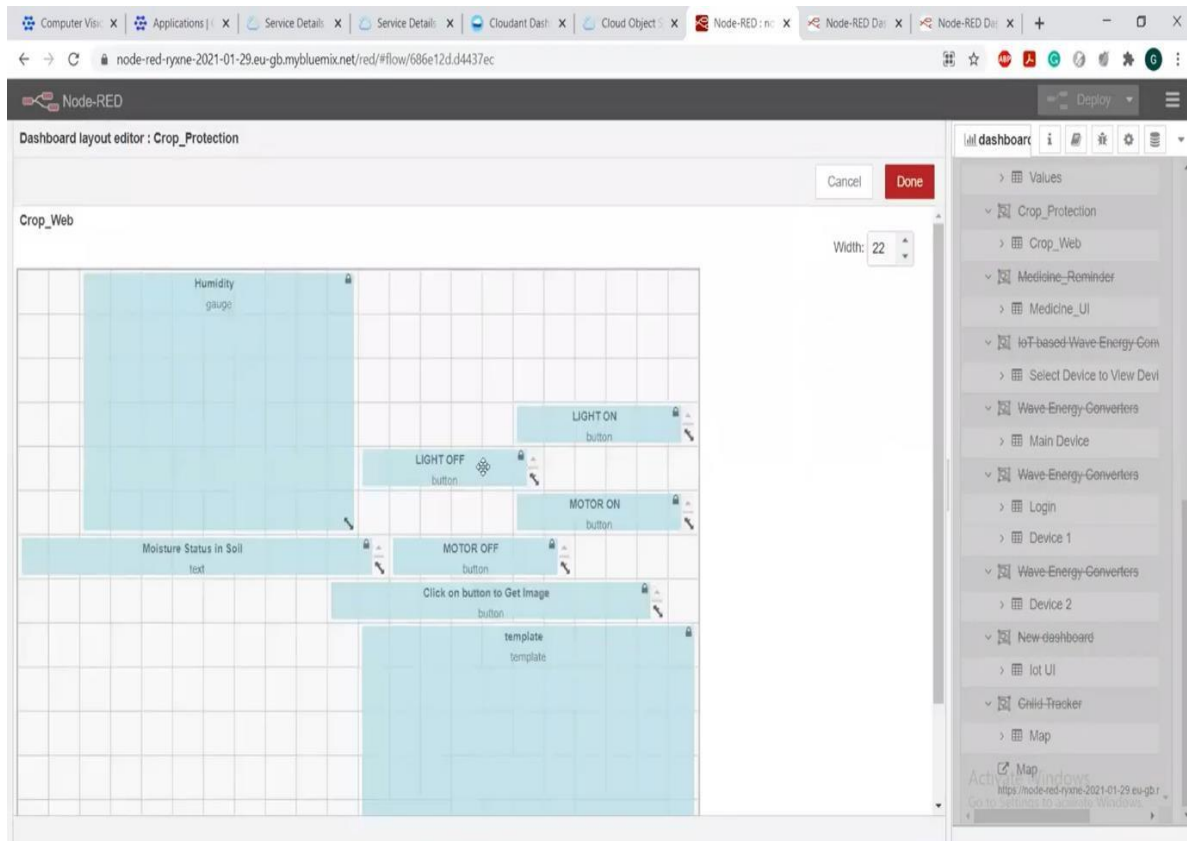
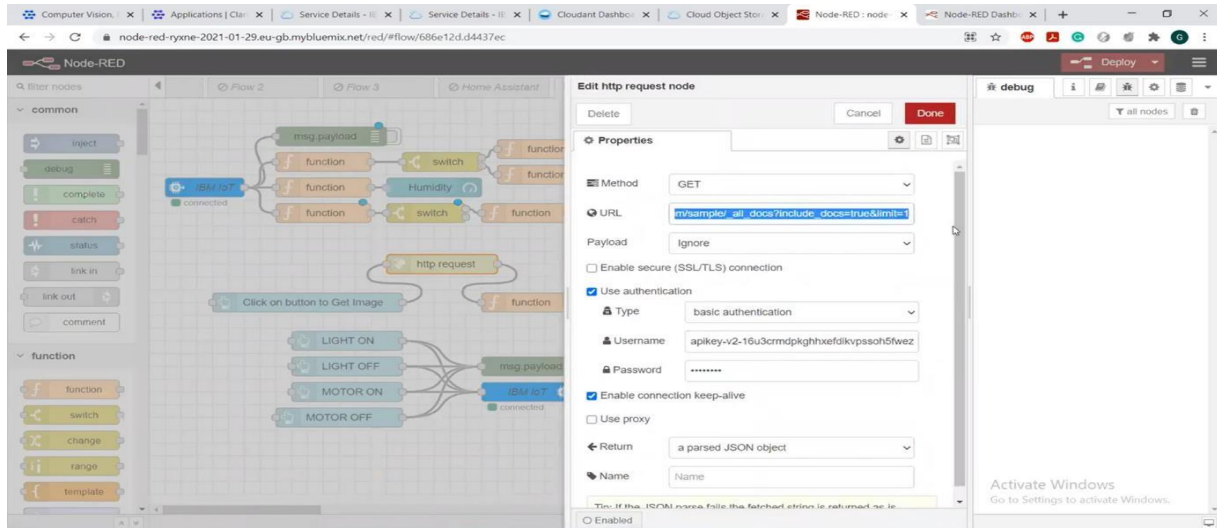
msg.payload

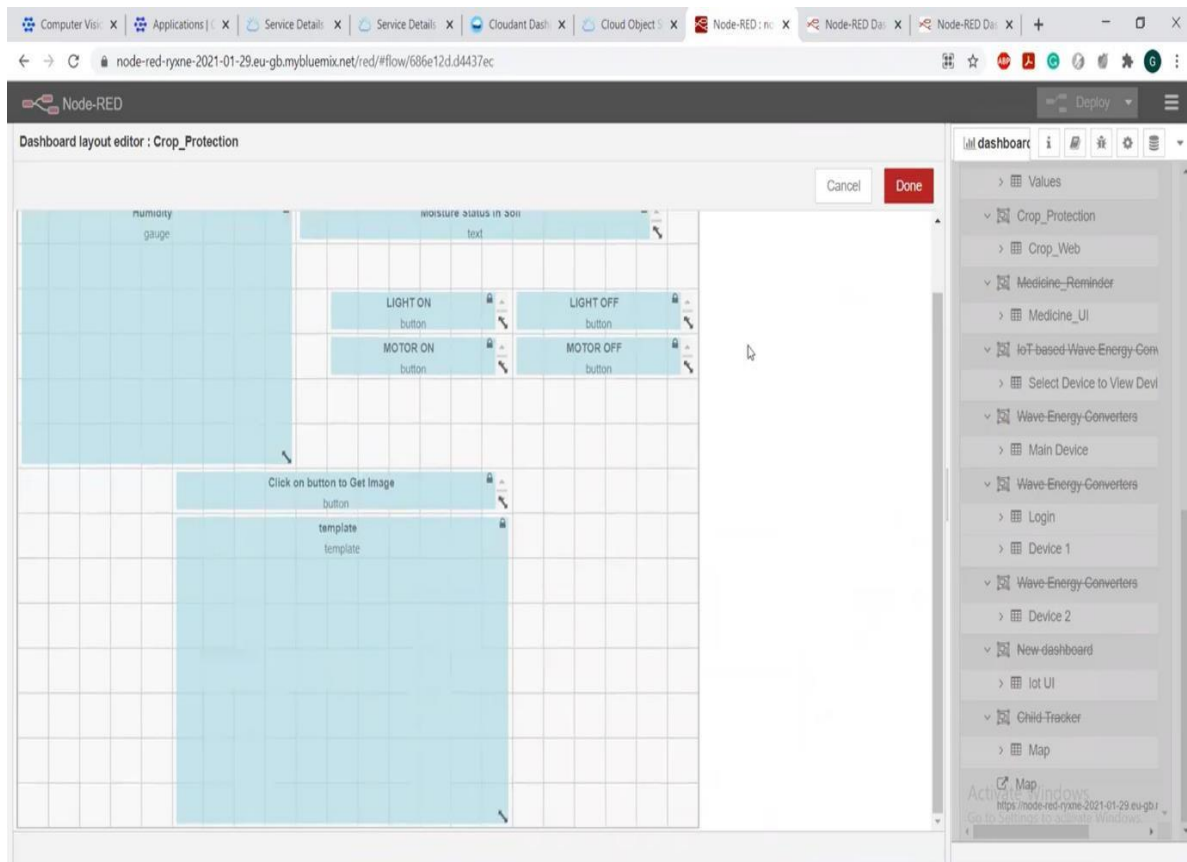
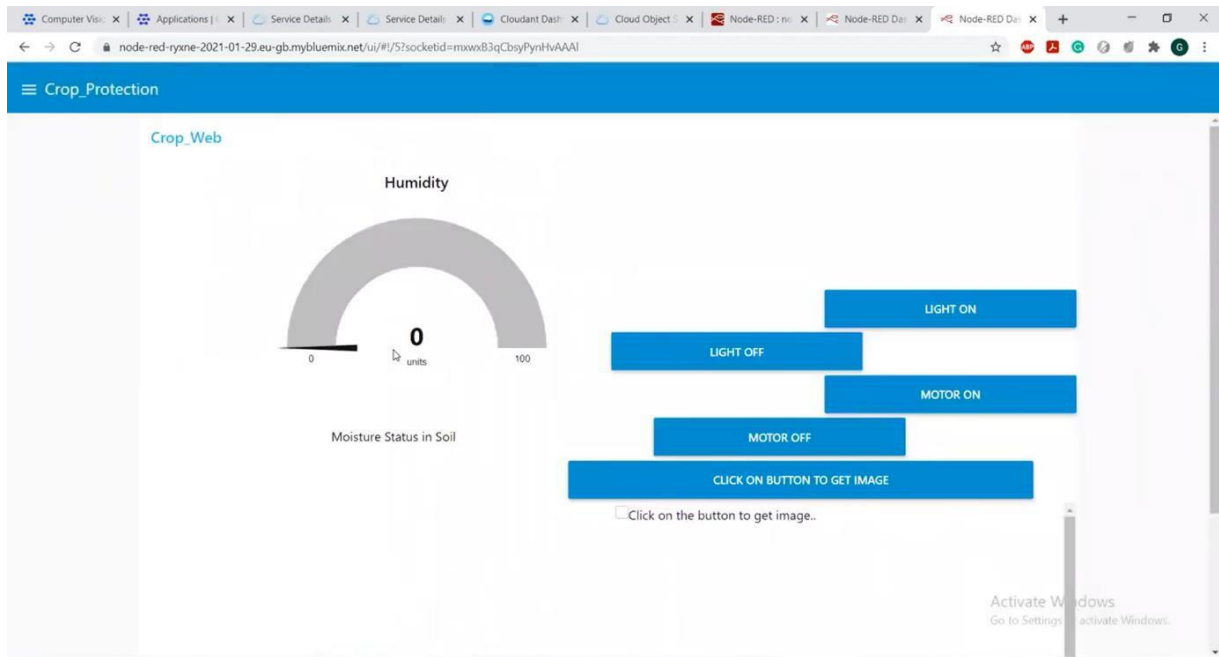
abw io?

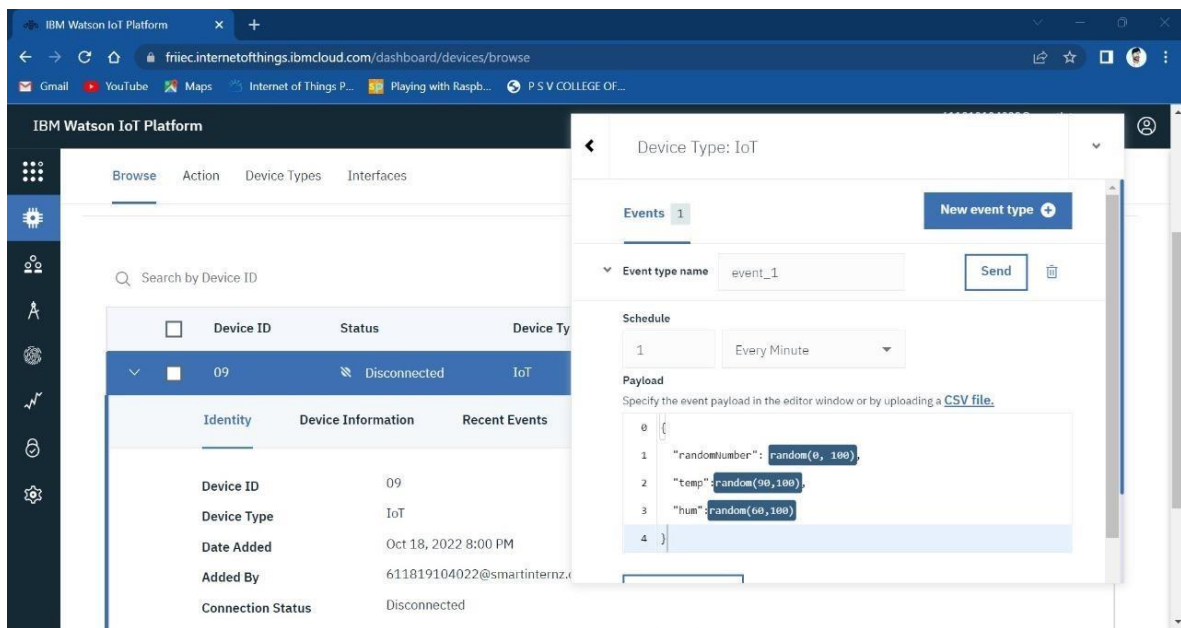
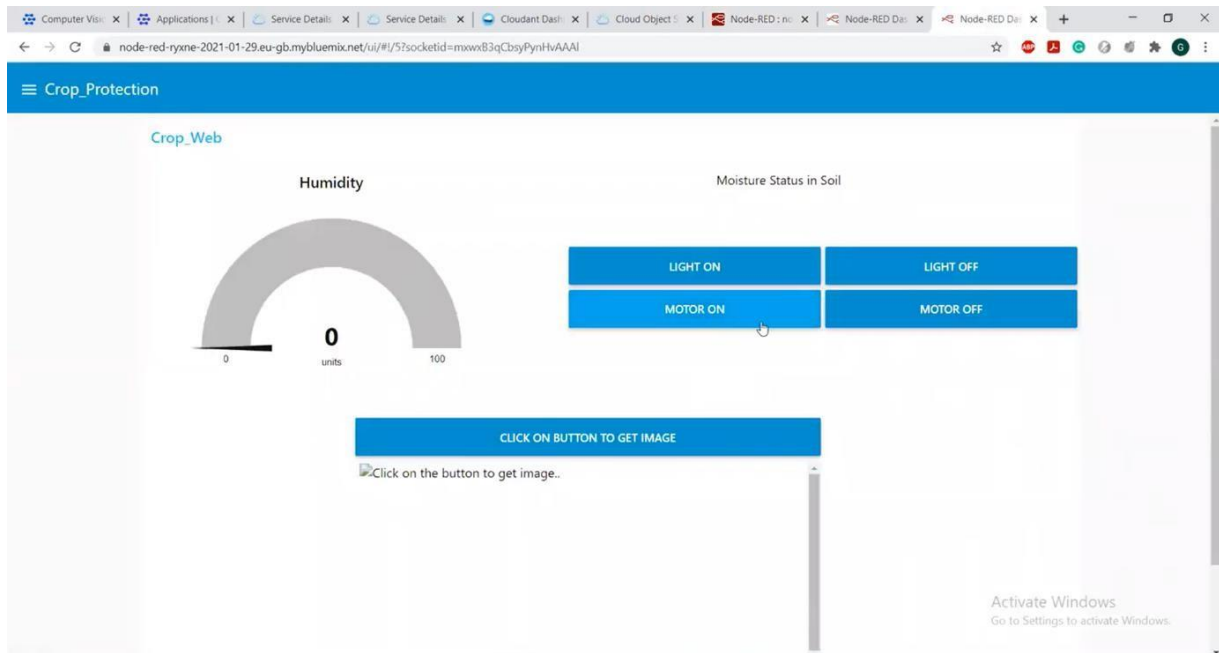
connected

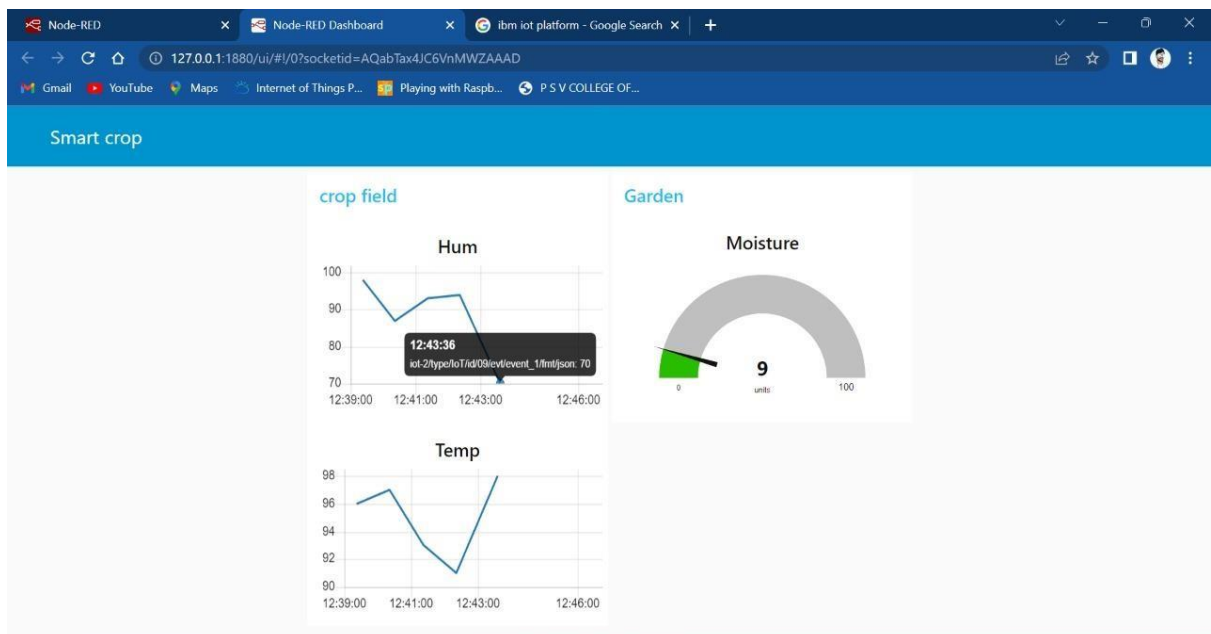
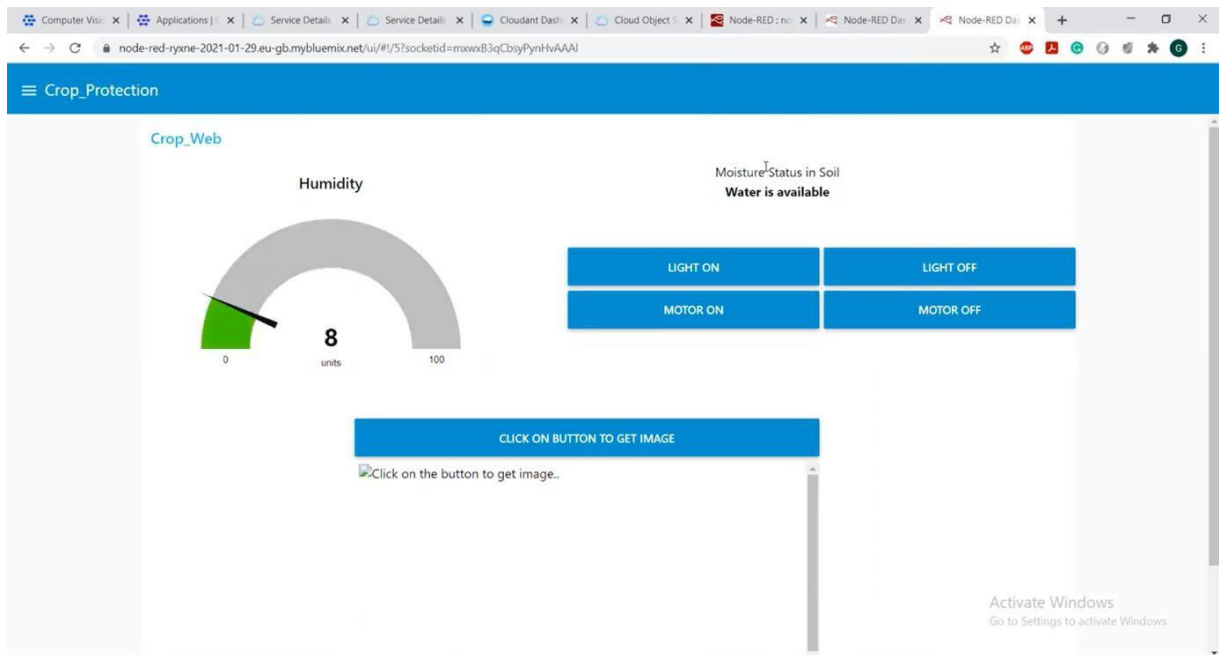
Activate Windows
Go to Settings to activate Windows.

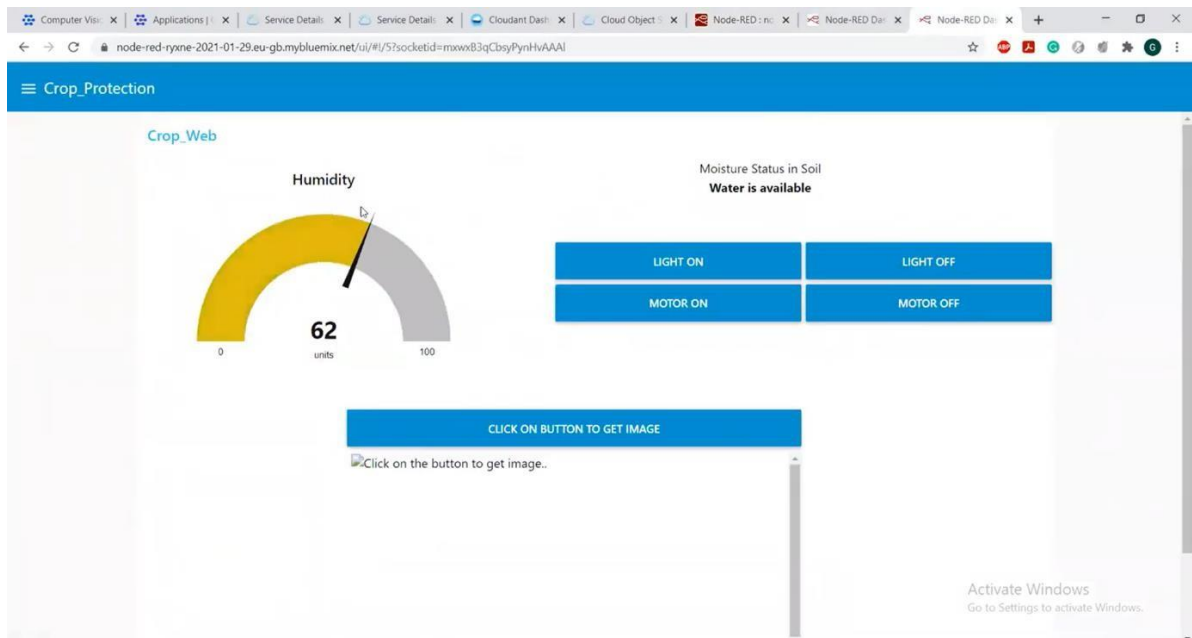
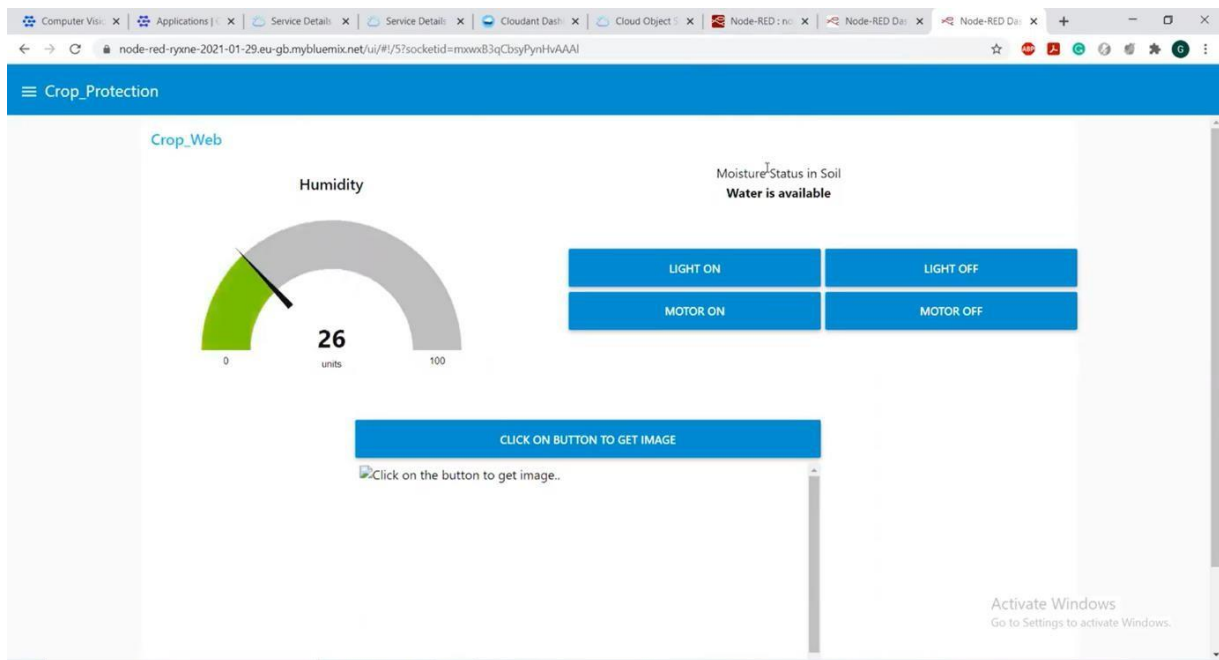
The diagram shows a Node-RED flow for a crop protection system. It starts with a 'Click on button to Get Image' node that triggers an 'http request' node. This request goes through a 'function' node and then a 'template' node to produce a 'msg.payload'. Another 'http request' node is connected to a 'function' node, which then connects to a 'switch' node. The 'switch' node has two outputs: one leading to a 'Humidity' node and another to a 'Temperature' node. Both 'Humidity' and 'Temperature' nodes connect to a 'function' node, which then connects to a 'msg.payload' node. This 'msg.payload' node connects to a 'function' node, which then connects to a 'switch' node. The 'switch' node has two outputs: one leading to a 'Moisture Status in Soil' node and another to an 'rbe' node. The 'Moisture Status in Soil' node connects to an 'http request' node, which then connects to a 'msg.payload' node. This 'msg.payload' node connects to an 'http' node, which then connects to a 'msg.payload' node. Finally, this 'msg.payload' node connects to a 'template' node. There is also a separate section for controlling lights and motors. It starts with a 'function' node that connects to a 'msg.payload' node. This 'msg.payload' node connects to a 'switch' node. The 'switch' node has four outputs: 'LIGHT ON', 'LIGHT OFF', 'MOTOR ON', and 'MOTOR OFF'. Each of these outputs connects to a 'function' node, which then connects to an 'abw io?' node. The 'abw io?' node is connected to a 'connected' node.

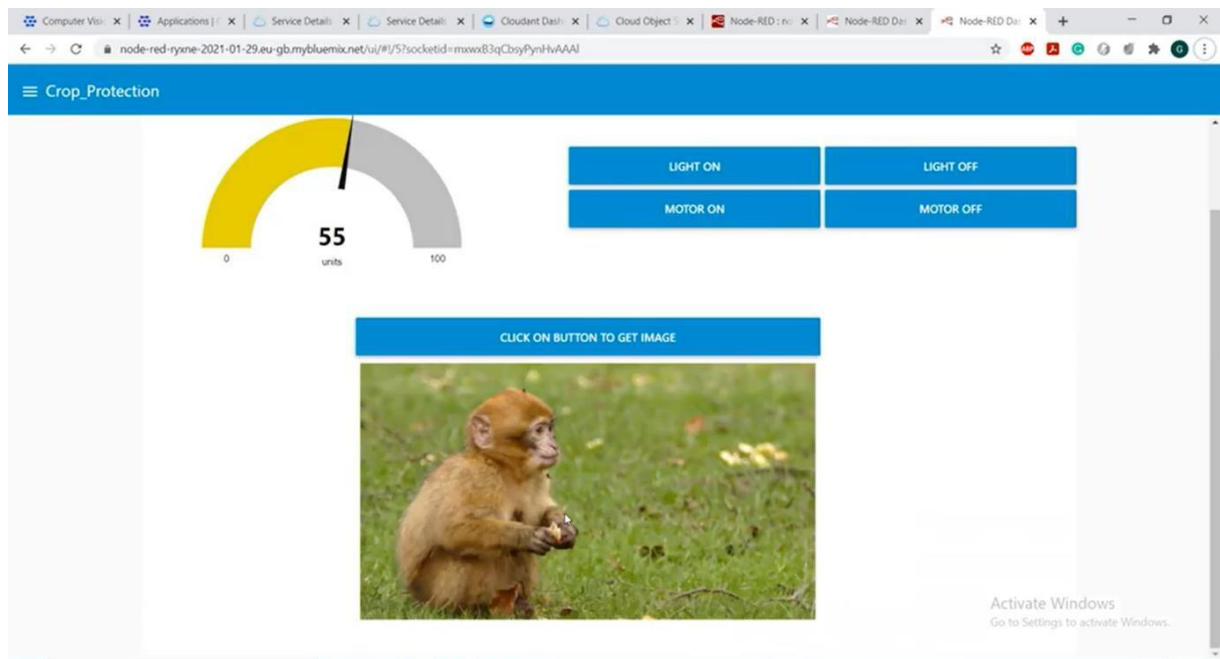












Thus, we developed a web application using node-red service.