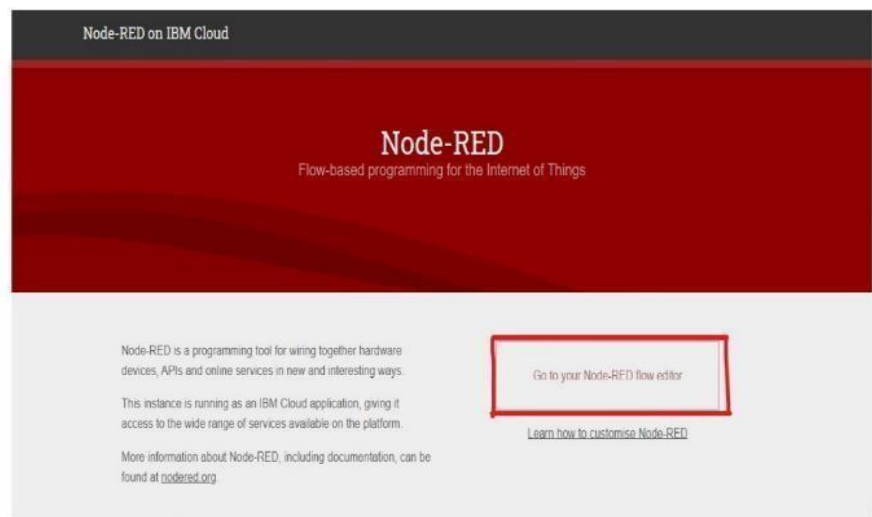


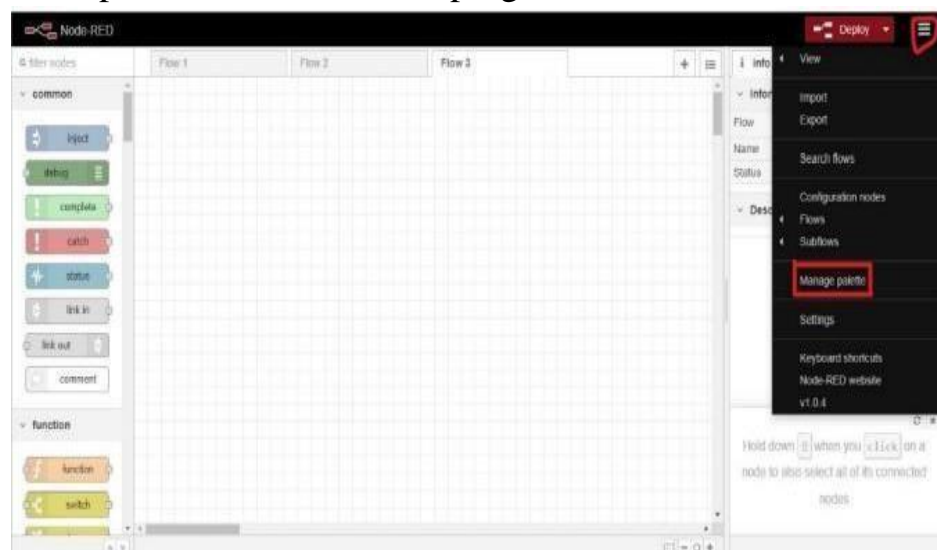
## DEVELOPING WEB APPLICATION USING NODE- RED SERVICE

<b>Team ID</b>	<b>PNT2022TMID24112</b>
<b>Project Name</b>	<b>IoT Based Smart Crop Protection System for Agriculture</b>

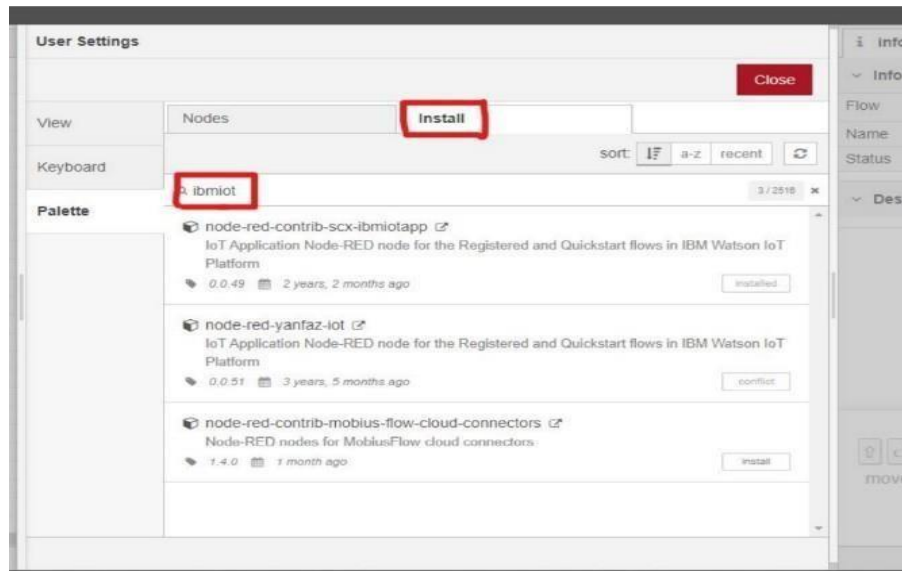
**Step 1:** Click on your Node-Red flow editor where you will be redirected to the Node-Red flow editor.



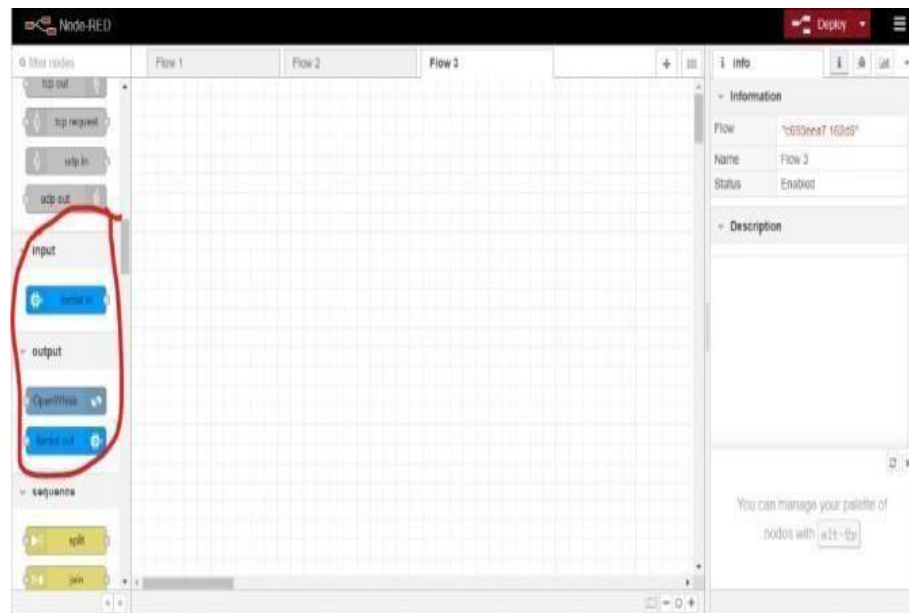
**Step 2:** To install IBM nodes in Node-Red flow editor click on manage palette in the new menu option which is on the top right on the screen.



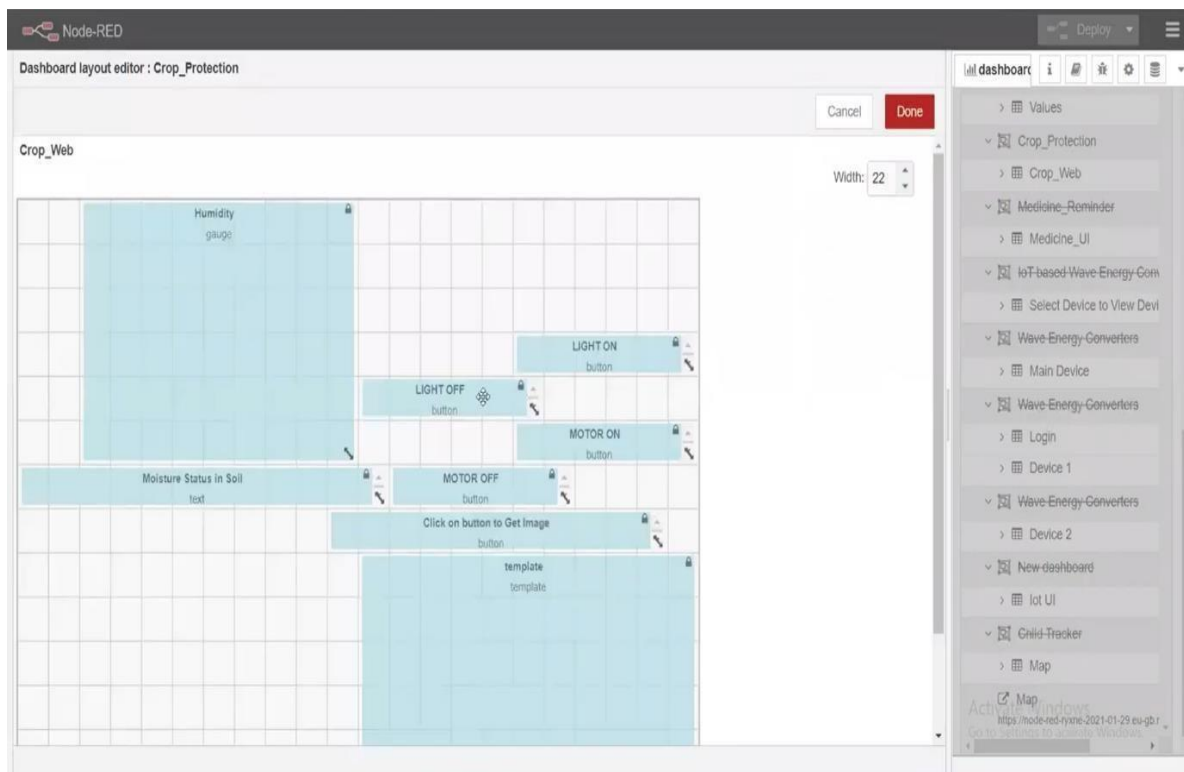
**Step 3:** In Install section search for ibm Iot and install the ibm nodes to the flow editor.

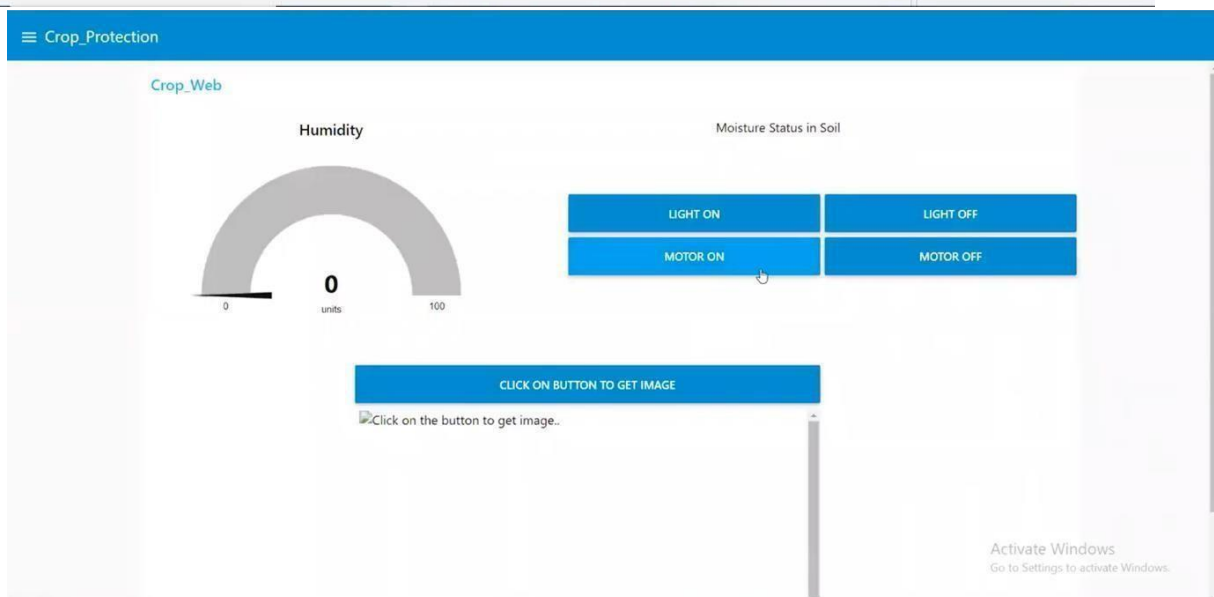
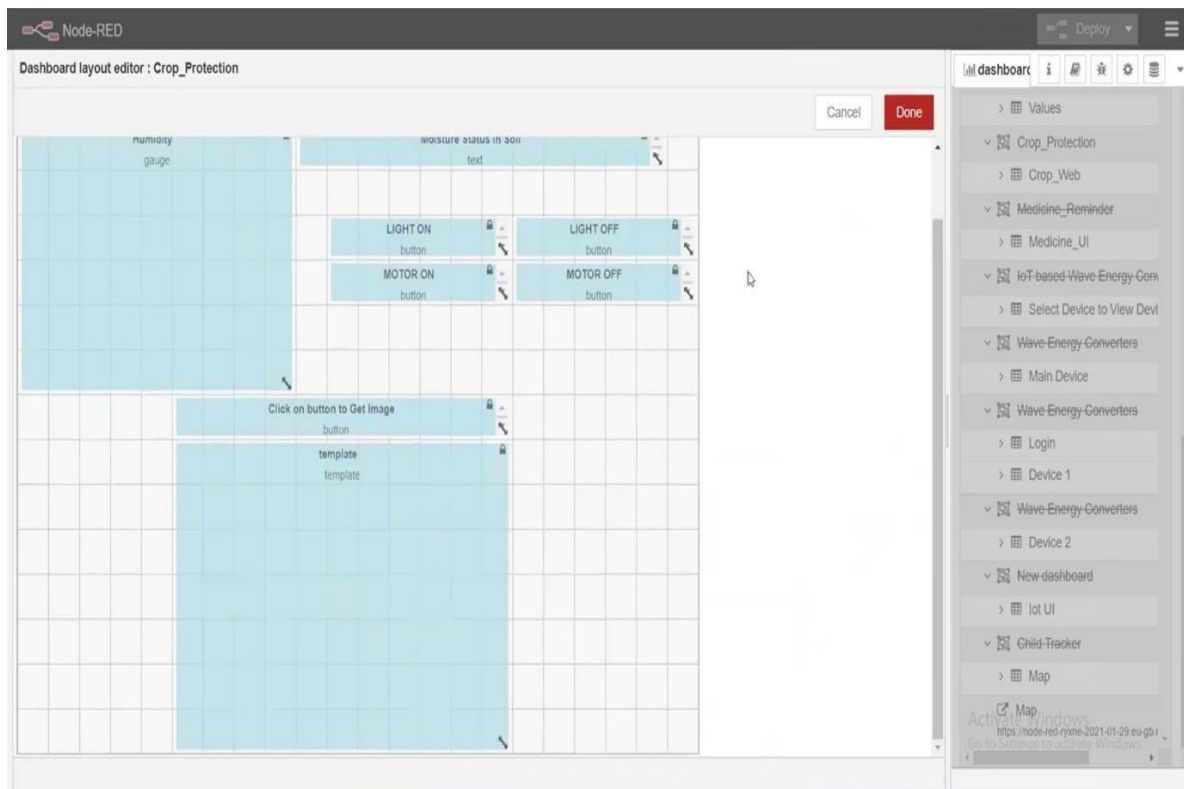


**Step 4:** Search for IBM nodes in the filter nodes section.









IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

Device ID	Status	Device Type
09	Disconnected	IoT

Identity Device Information Recent Events

Device ID: 09  
Device Type: IoT  
Date Added: Oct 18, 2022 8:00 PM  
Added By: 611819104022@smartintenz.com  
Connection Status: Disconnected

Device Type: IoT

Events 1 [New event type +](#)

Event type name: event\_1 [Send](#) [Delete](#)

Schedule: 1 Every Minute

Payload: Specify the event payload in the editor window or by uploading a [CSV file](#).

```
0 {  
1   "randomNumber": random(0, 100),  
2   "temp": random(90, 100),  
3   "hum": random(60, 100)  
4 }
```

Crop\_Protection

Crop\_Web

Humidity

Moisture Status in Soil  
Water is available

0 8 100 units

LIGHT ON LIGHT OFF

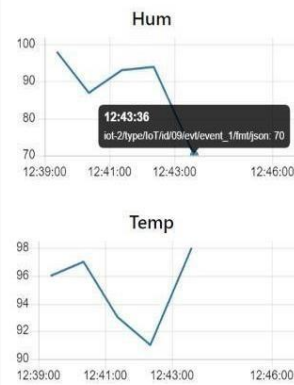
MOTOR ON MOTOR OFF

CLICK ON BUTTON TO GET IMAGE

Click on the button to get image..

Activate Windows  
Go to Settings to activate Windows.

### crop field



### Garden

#### Moisture



### ≡ Crop\_Protection

#### Crop\_Web

#### Humidity



Moisture Status in Soil  
**Water is available**

LIGHT ON

LIGHT OFF

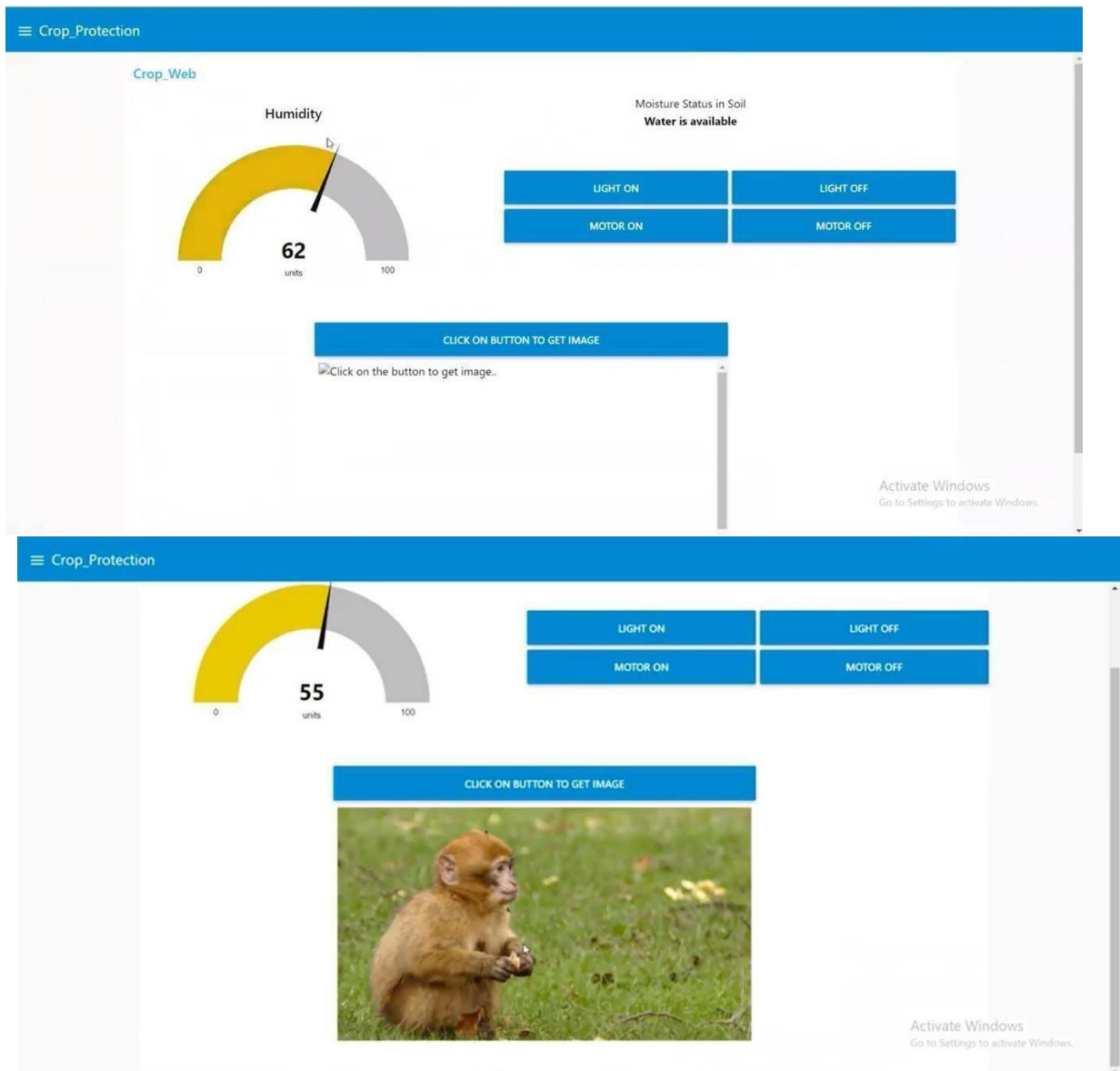
MOTOR ON

MOTOR OFF

CLICK ON BUTTON TO GET IMAGE

Click on the button to get image..

Activate Windows  
Go to Settings to activate Windows.



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