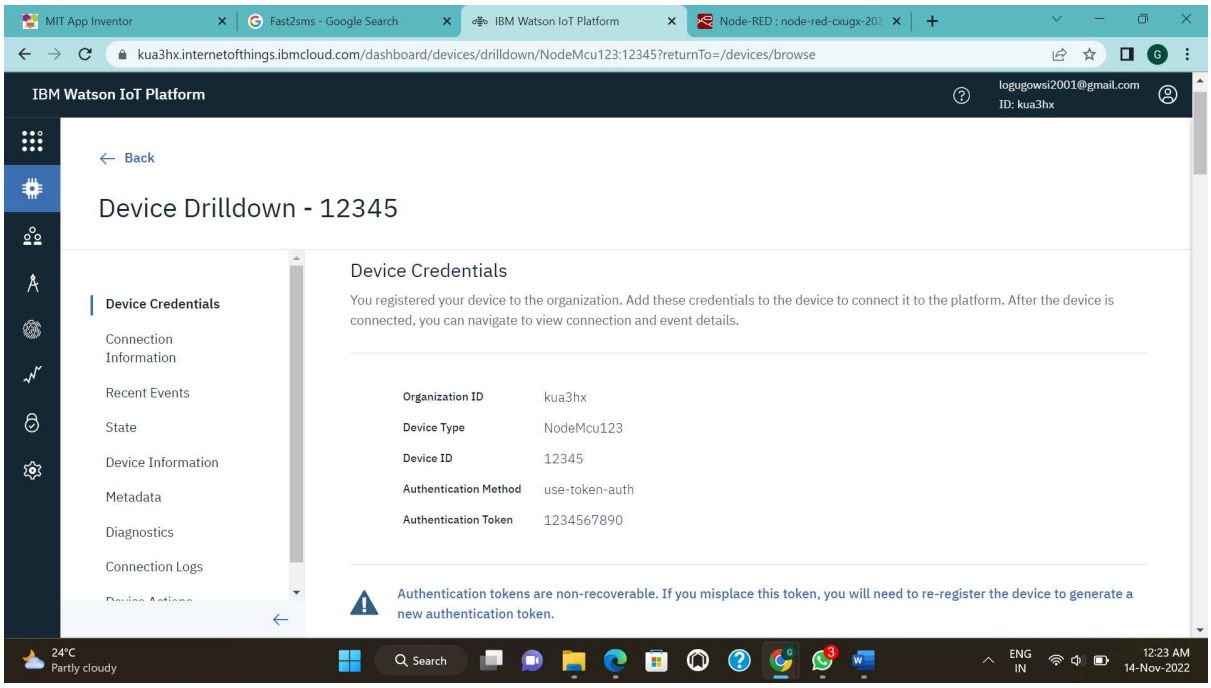
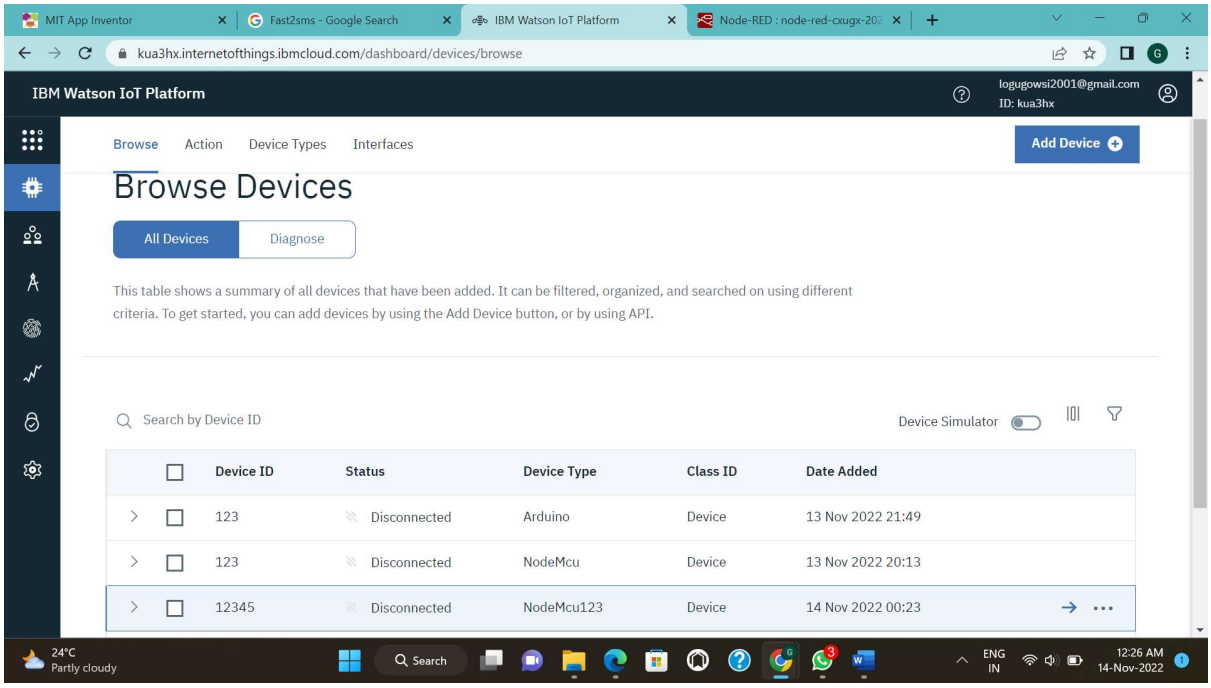
BUILD A WEB APPLICATION USING NODE-RED SERVICES

TITLE	**Smart Farmer-IOT Enabled Smart Farming Application**
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID23830
Project Name	Smart Farmer - IoT Enabled Smart Farming Application
Leader Name	GOWSALYA L
Team Members Name	DEEPIKA B K MEGAVARSHINI G MONISHA N
MENTOR NAME	THIRUPPATHI M

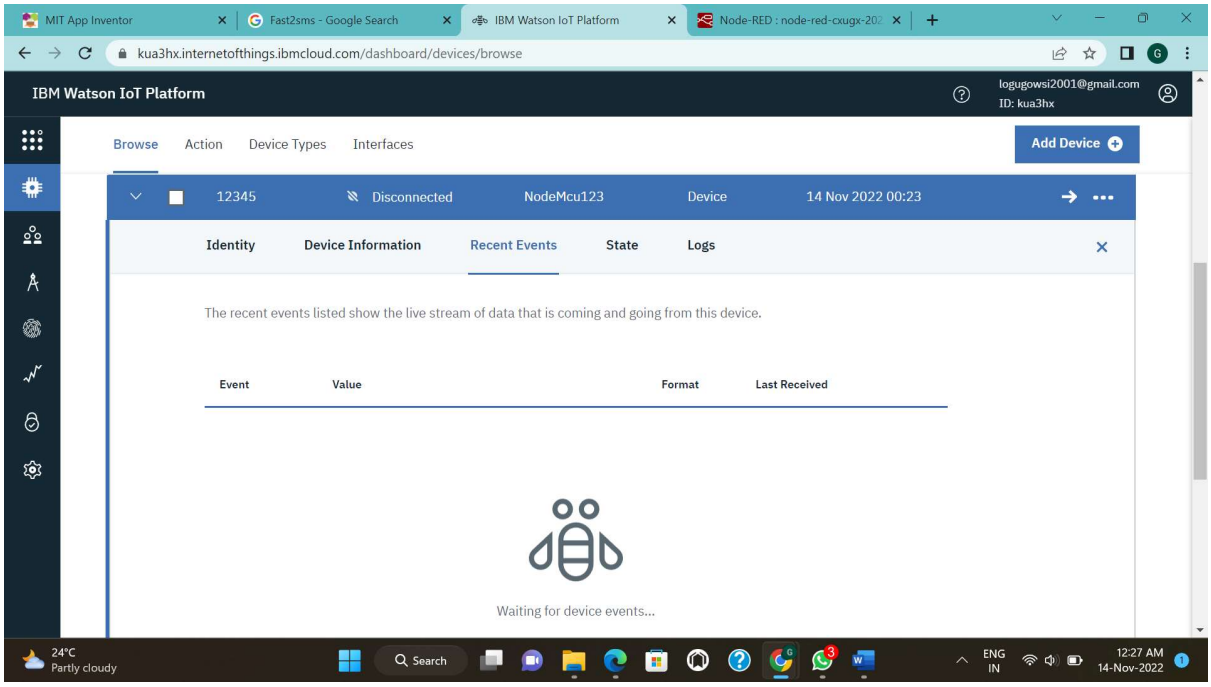
Step 1:



Step 2:


MIT App Inventor
Fast2sms - Google Search
IBM Watson IoT Platform
Node-RED : node-red-cxugx-202
kua3hx.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
logugowsi2001@gmail.com
ID: kua3hx
Browse
Action
Device Types
Interfaces
Add Device
Browse Devices
All Devices
Diagnose
This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
123
Disconnected
Arduino
Device
13 Nov 2022 21:49
123
Disconnected
NodeMcu
Device
13 Nov 2022 20:13
12345
Disconnected
NodeMcu123
Device
14 Nov 2022 00:23
24°C
Partly cloudy
Search
ENG
IN
12:26 AM
14-Nov-2022

Step 3: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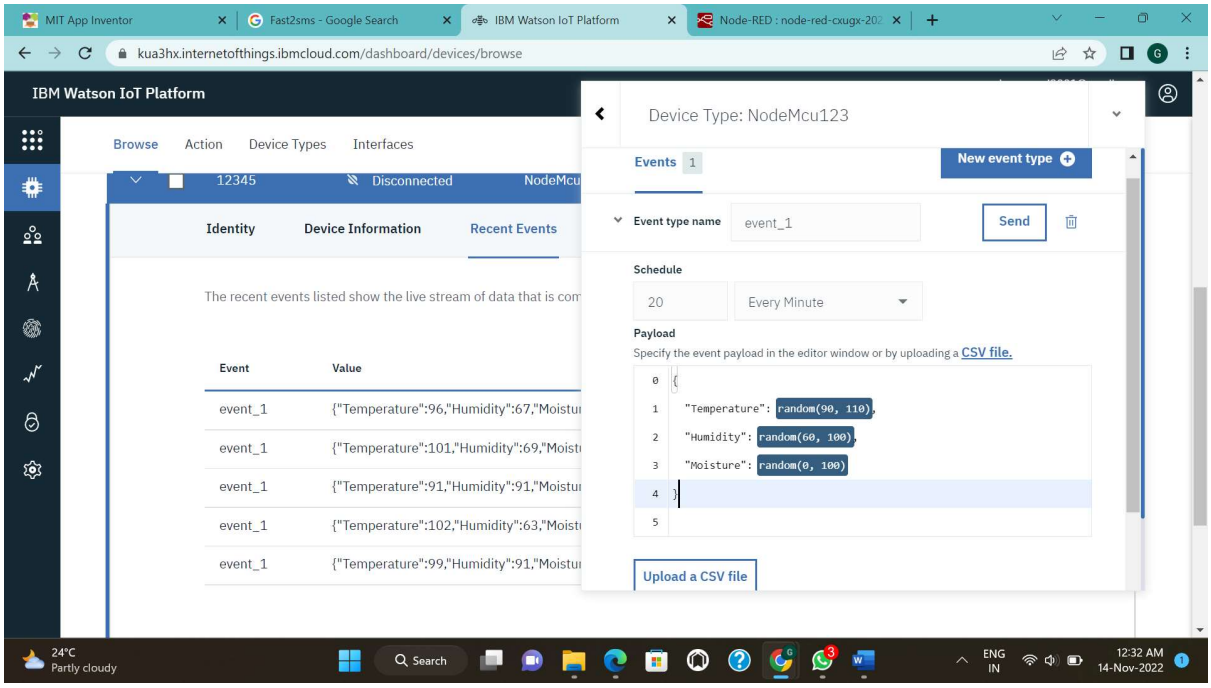
IBM Watson IoT Platform
Node-RED : node-red-cxugx-202
kua3hx.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
logugowsi2001@gmail.com
ID: kua3hx
Browse
Action
Device Types
Interfaces
Add Device
12345
Disconnected
NodeMcu123
Device
14 Nov 2022 00:23
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
Waiting for device events...
24°C
Partly cloudy
Search
ENG
IN
12:27 AM
14-Nov-2022

Step 4: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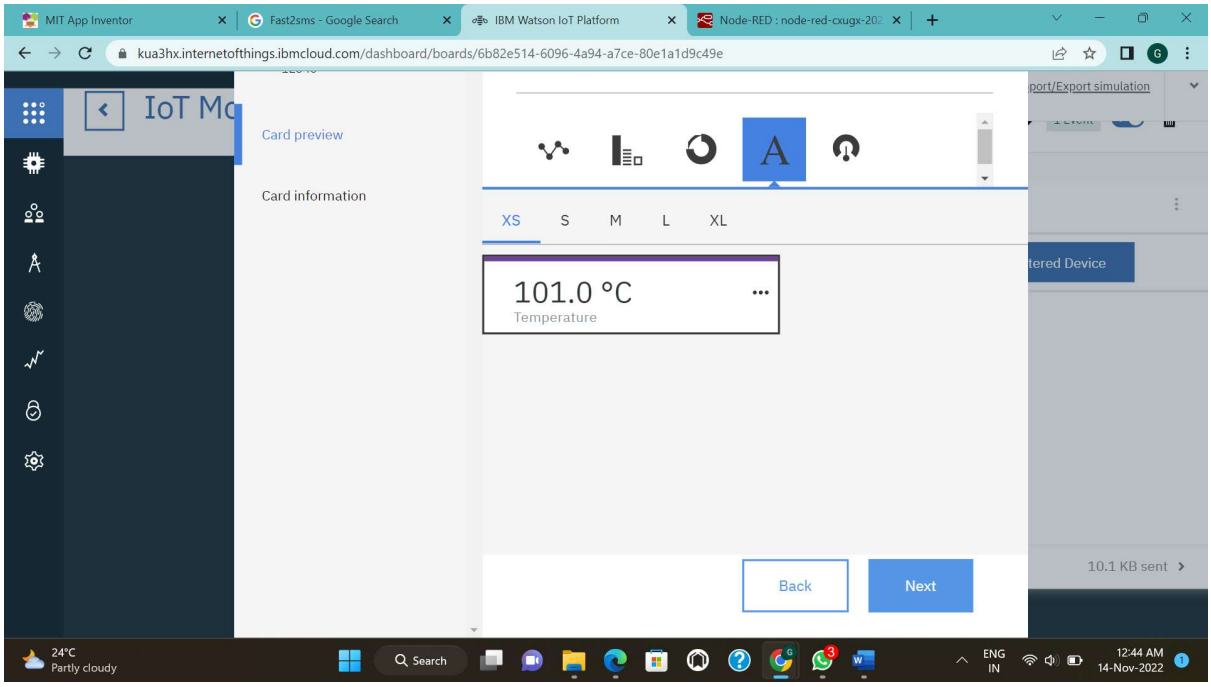
IBM Watson IoT Platform
Node-RED : node-red-cxugx-202
kua3hx.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
12345
Disconnected
Identity
Device Information
Recent Events
The recent events listed show the live stream of data that is com
Event
Value
event_1
{"Temperature":96,"Humidity":67,"Moistur
event_1
{"Temperature":101,"Humidity":69,"Moistu
event_1
{"Temperature":91,"Humidity":91,"Moistur
event_1
{"Temperature":102,"Humidity":63,"Moistu
event_1
{"Temperature":99,"Humidity":91,"Moistur
Device Type: NodeMcu123
Events 1
New event type
Event type name
event_1
Send
Schedule
20
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"Temperature": random(90, 110),
"Humidity": random(60, 100),
"Moisture": random(0, 100)
}
Upload a CSV file
24°C
Partly cloudy
Search
ENG
IN
12:32 AM
14-Nov-2022

Step 5: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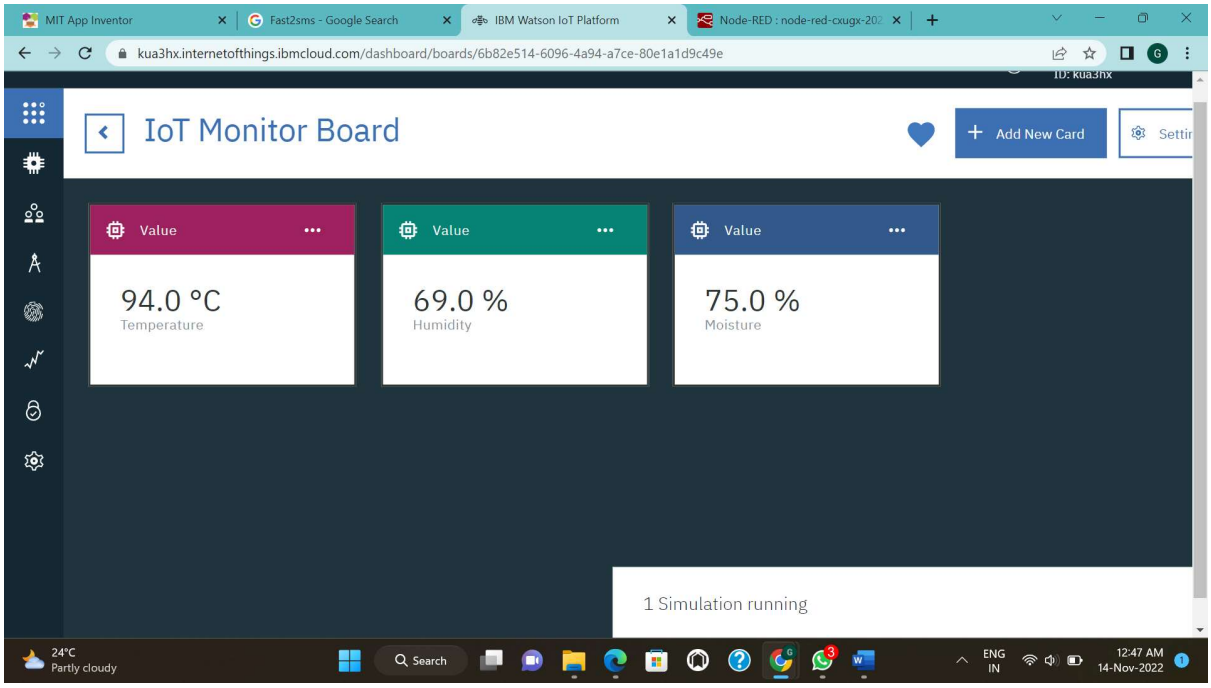
IBM Watson IoT Platform
Node-RED : node-red-cxugx-202
kua3hx.internetofthings.ibmcloud.com/dashboard/boards/6b82e514-6096-4a94-a7ce-80e1a1d9c49e
IoT Mc
Card preview
Card information
XS
S
M
L
XL
101.0 °C
Temperature
Back
Next
10.1 KB sent
24°C
Partly cloudy
Search
ENG
IN
12:44 AM
14-Nov-2022

Step 6: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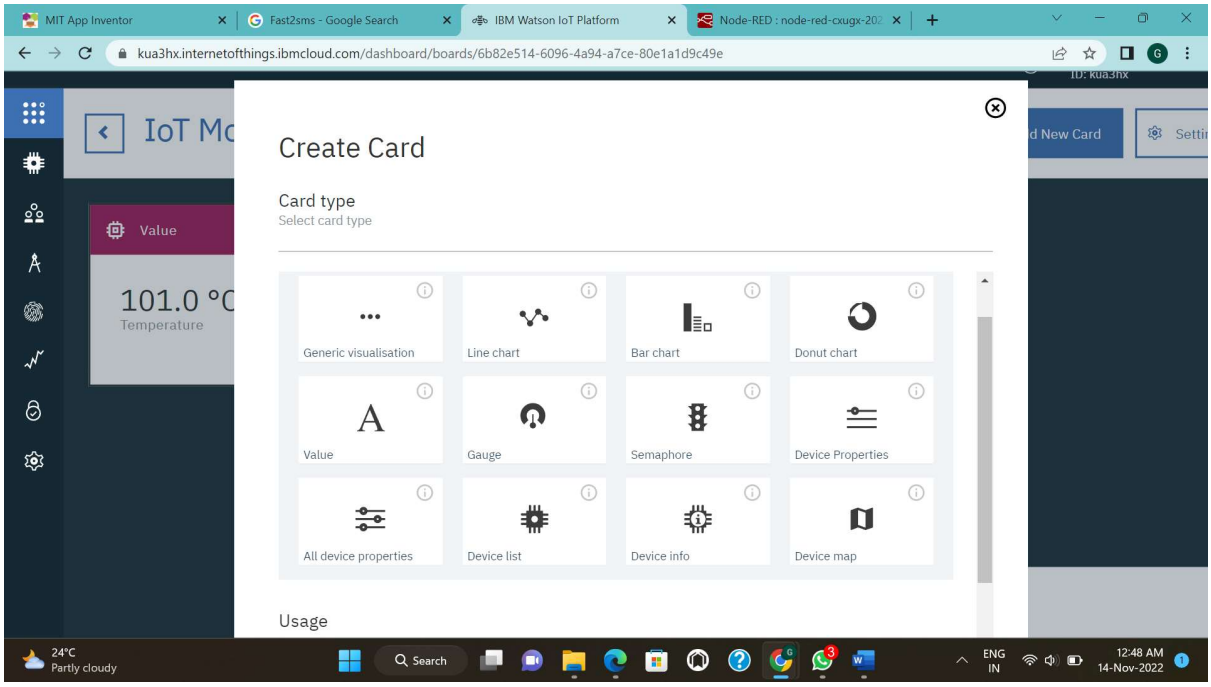
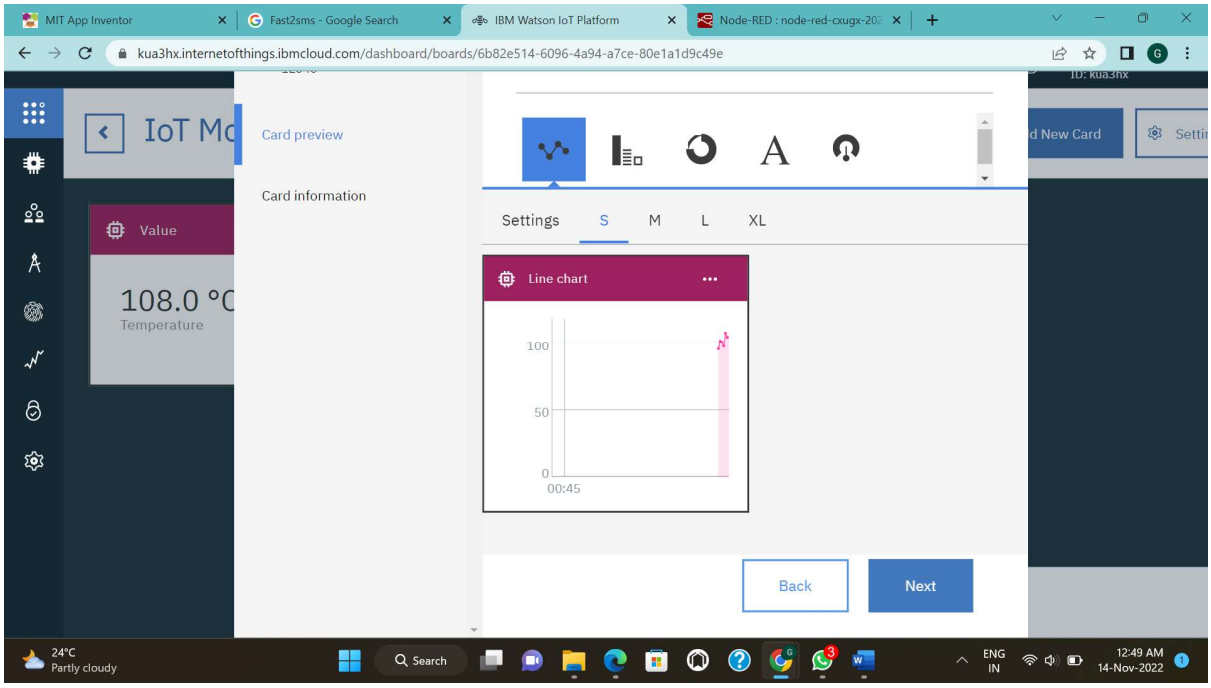
IBM Watson IoT Platform
Node-RED : node-red-cxugx-202
kua3hx.internetofthings.ibmcloud.com/dashboard/boards/6b82e514-6096-4a94-a7ce-80e1a1d9c49e
IoT Monitor Board
Add New Card
Value
94.0 °C
Temperature
Value
69.0 %
Humidity
Value
75.0 %
Moisture
1 Simulation running
24°C
Partly cloudy
Search
ENG
IN
12:47 AM
14-Nov-2022

Step 7:


MIT App Inventor
Fast2sms - Google Search
IBM Watson IoT Platform
Node-RED : node-red-cxugx-202
kua3hx.internetofthings.ibmcloud.com/dashboard/boards/6b82e514-6096-4a94-a7ce-80e1a1d9c49e
Create Card
Card type
Select card type
Generic visualisation
Line chart
Bar chart
Donut chart
Value
Gauge
Semaphore
Device Properties
All device properties
Device list
Device info
Device map
Usage
Value
101.0 °C
Temperature
24°C
Partly cloudy
Search
ENG
IN
12:48 AM
14-Nov-2022

Step 8: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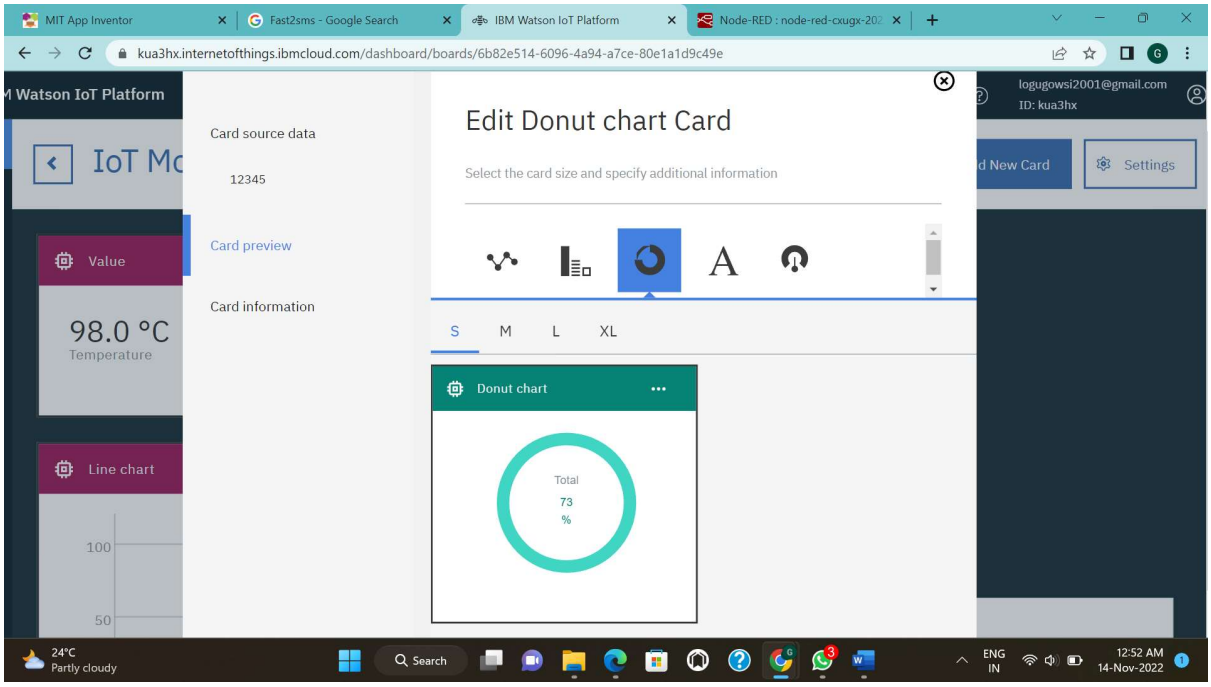
IBM Watson IoT Platform
Node-RED : node-red-cxugx-202
kua3hx.internetofthings.ibmcloud.com/dashboard/boards/6b82e514-6096-4a94-a7ce-80e1a1d9c49e
IoT Mc
Value
108.0 °C
Temperature
Card preview
Card information
Settings
S
M
L
XL
Line chart
100
50
0
00:45
Back
Next
d New Card
Setti
24°C
Partly cloudy
Search
ENG
IN
12:49 AM
14-Nov-2022

Step 9: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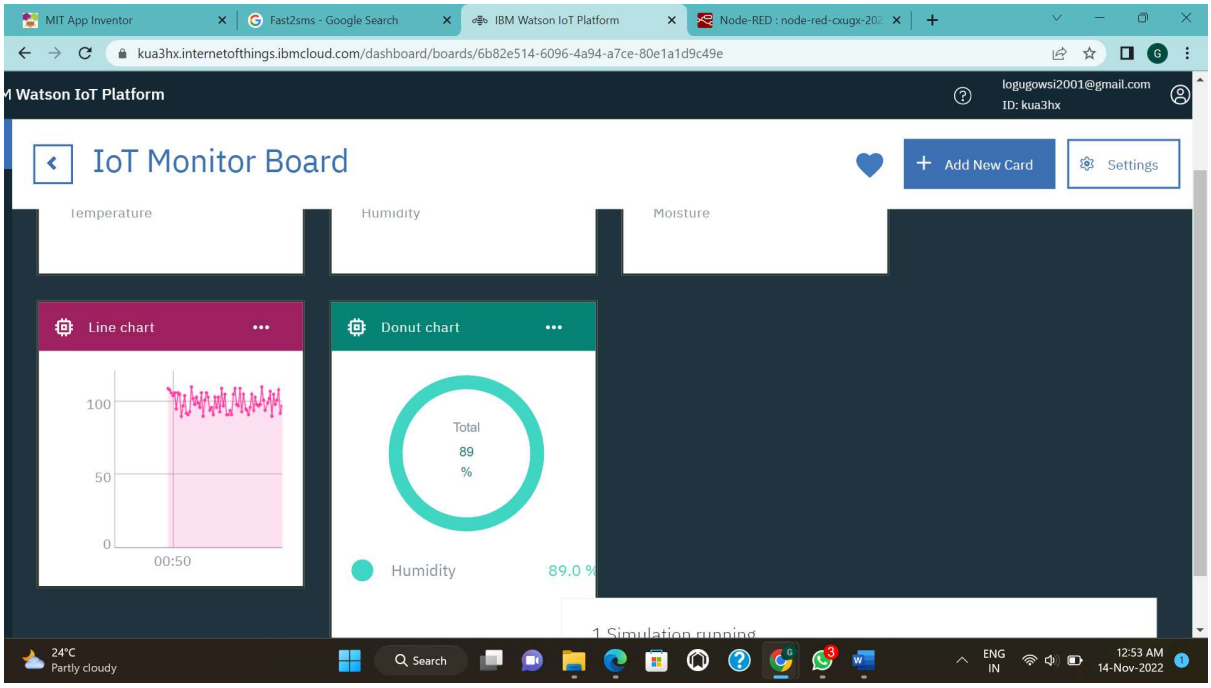
Fast2sms - Google Search
IBM Watson IoT Platform
Node-RED : node-red-cxugx-202
kua3hx.internetofthings.ibmcloud.com/dashboard/boards/6b82e514-6096-4a94-a7ce-80e1a1d9c49e
Watson IoT Platform
logugowsi2001@gmail.com
ID: kua3hx
IoT Mc
Value
98.0 °C
Temperature
Line chart
100
50
Card source data
12345
Card preview
Card information
Edit Donut chart Card
Select the card size and specify additional information
S
M
L
XL
Donut chart
Total
73
%
d New Card
Settings
24°C
Partly cloudy
Search
ENG
IN
12:52 AM
14-Nov-2022

Step 10:



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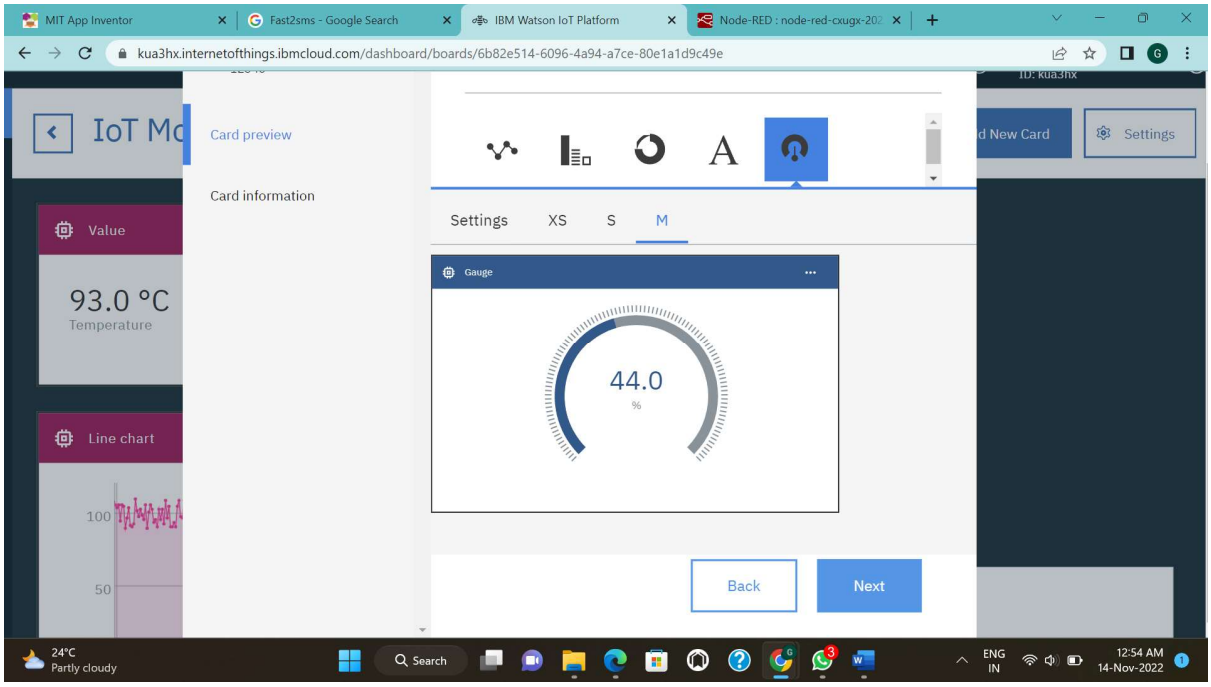
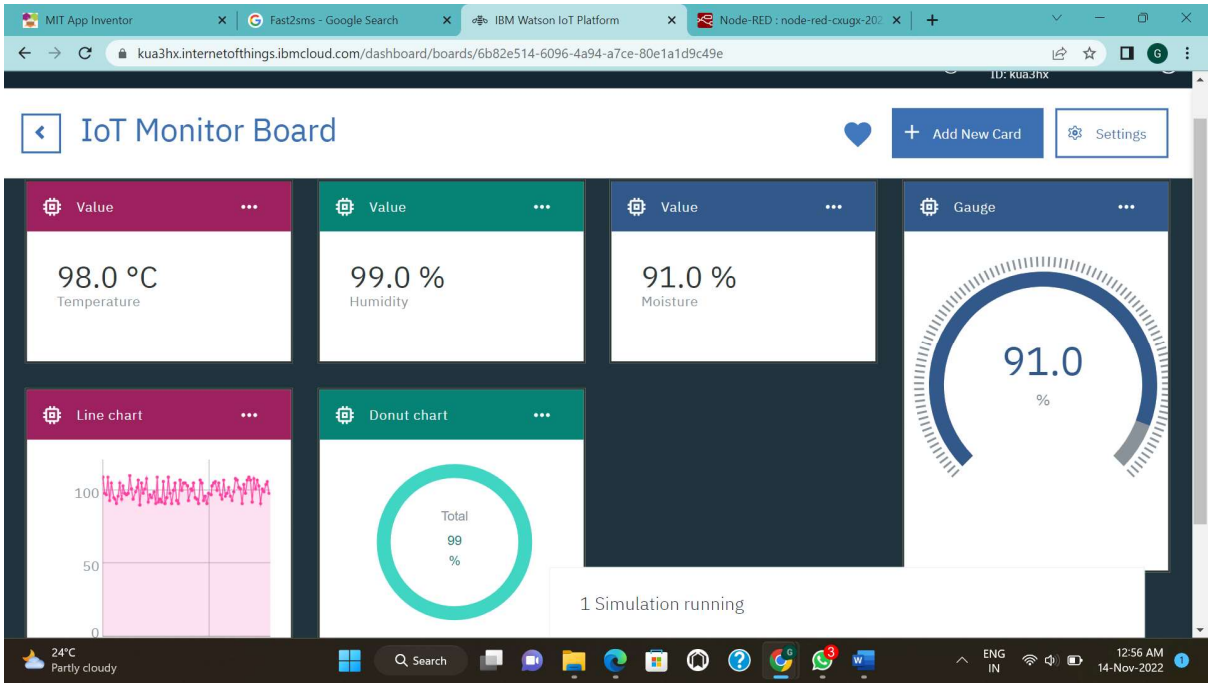


Step 12:



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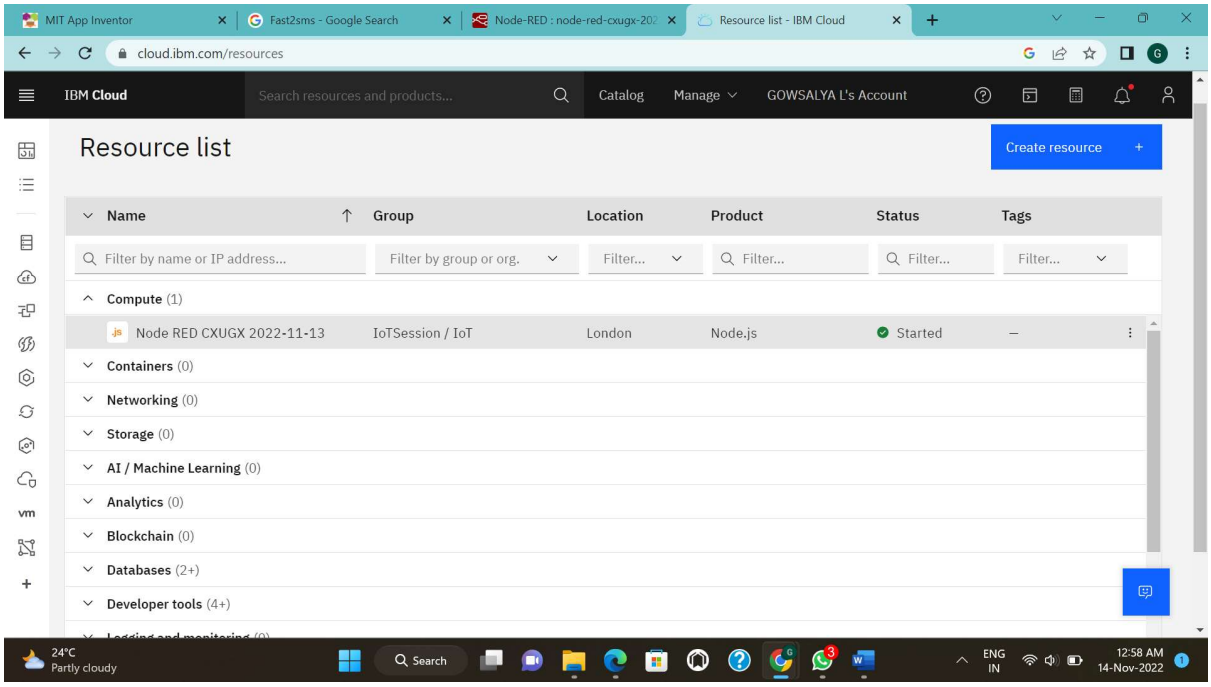

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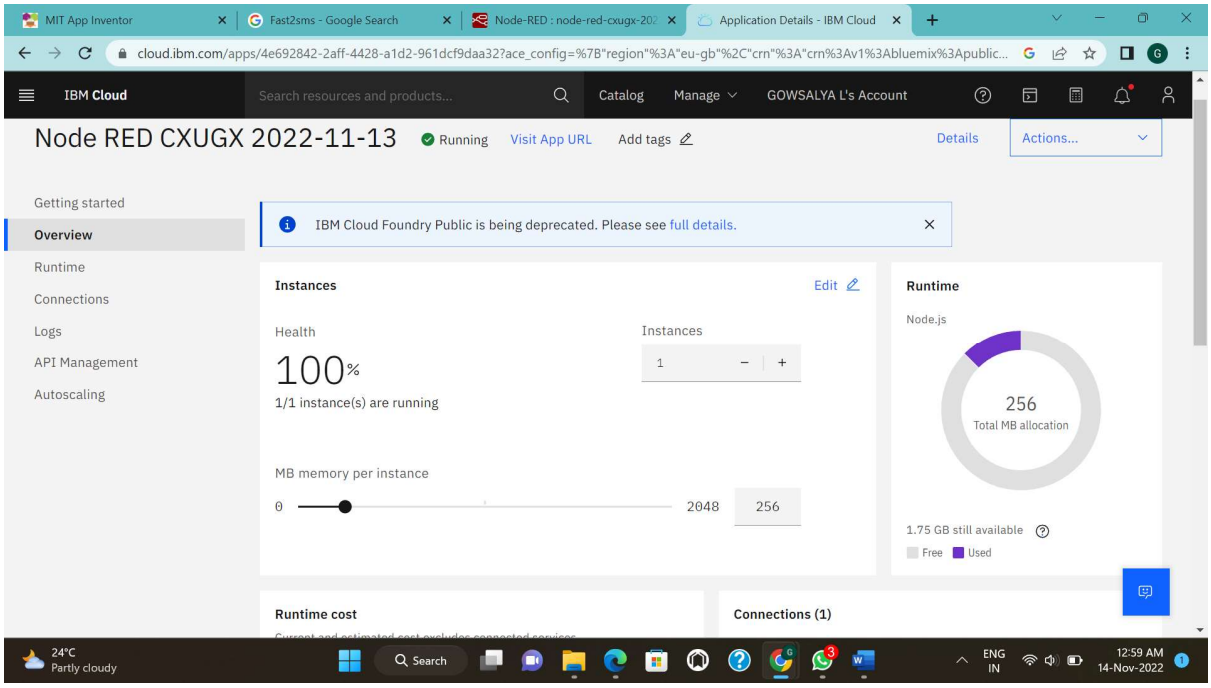

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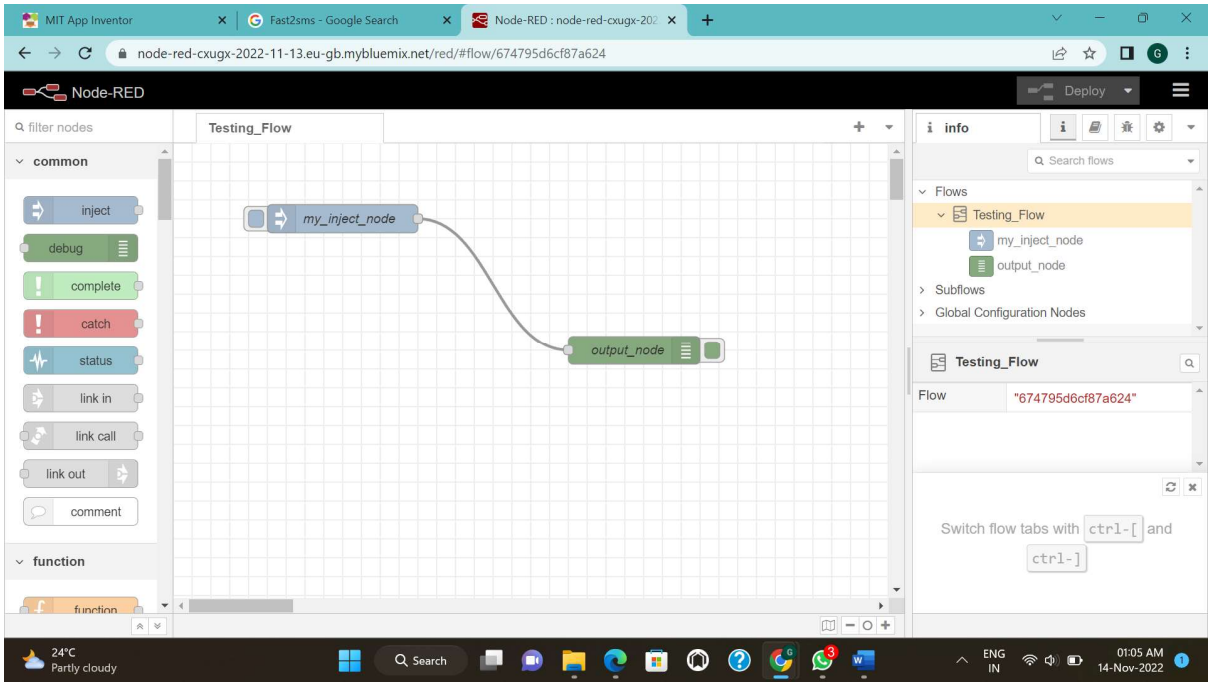

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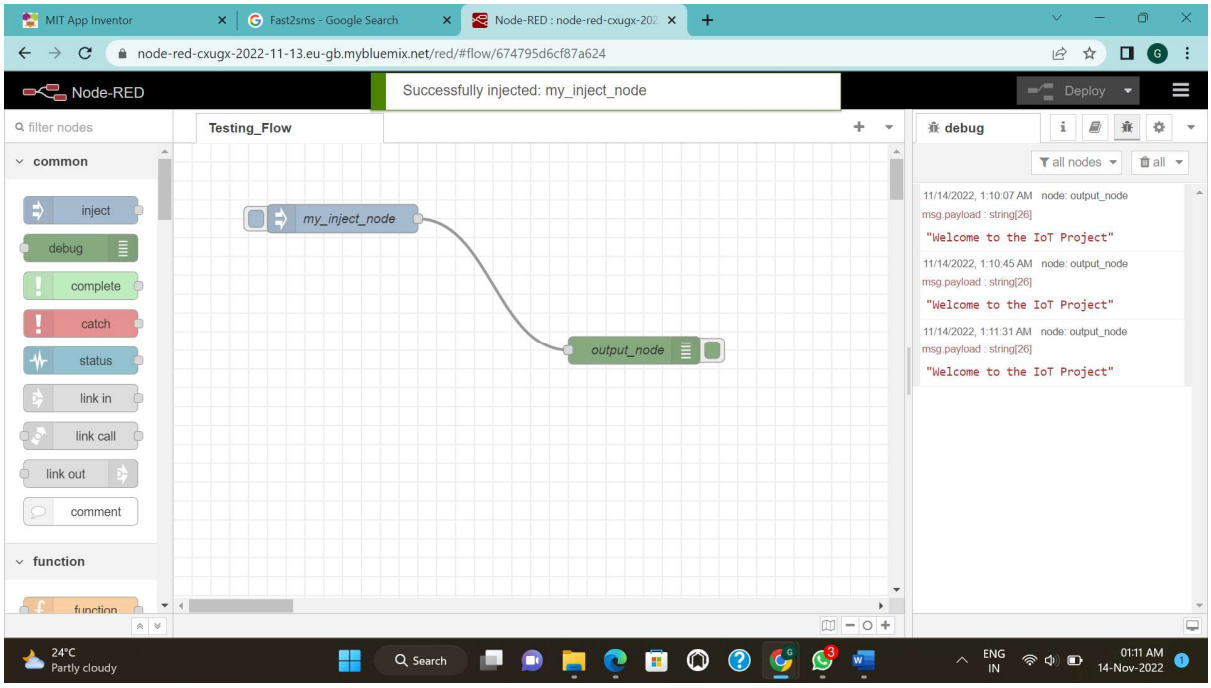

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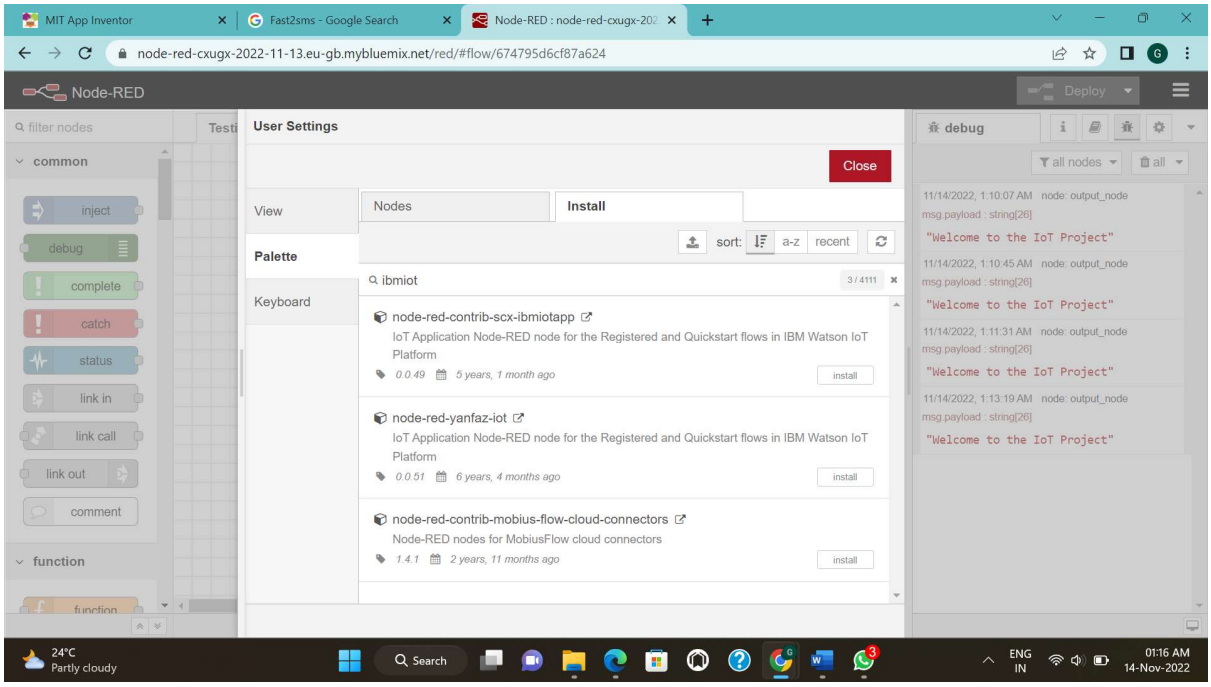

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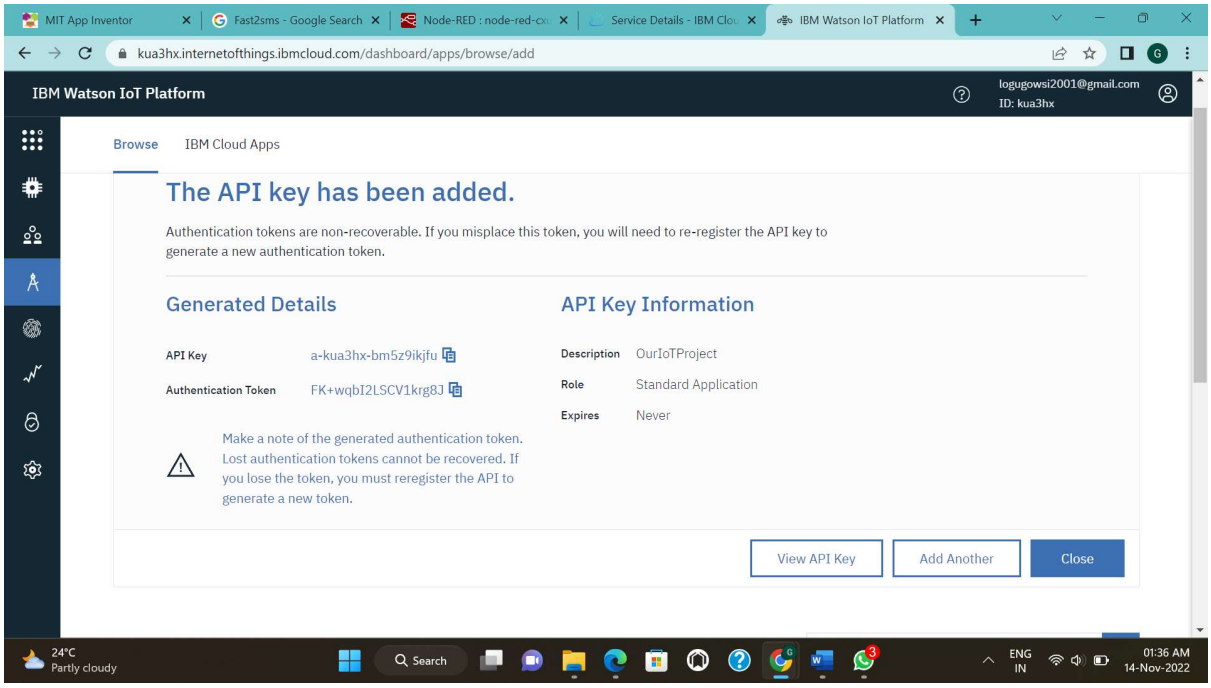
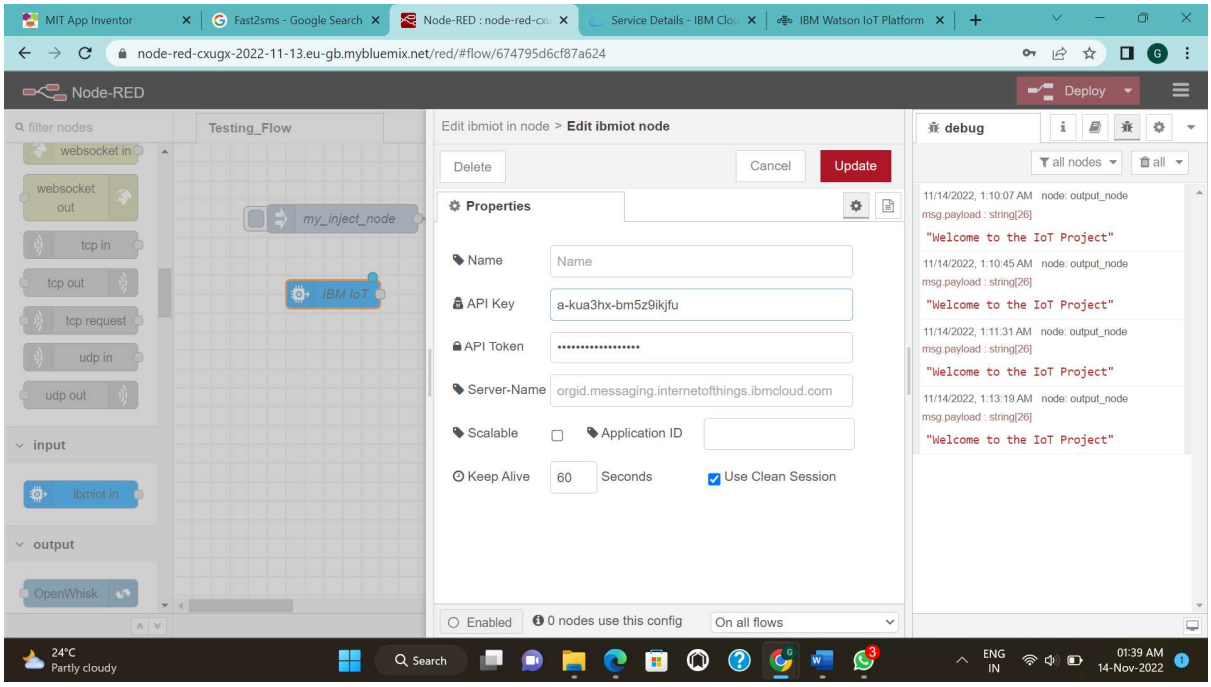


Step 19:



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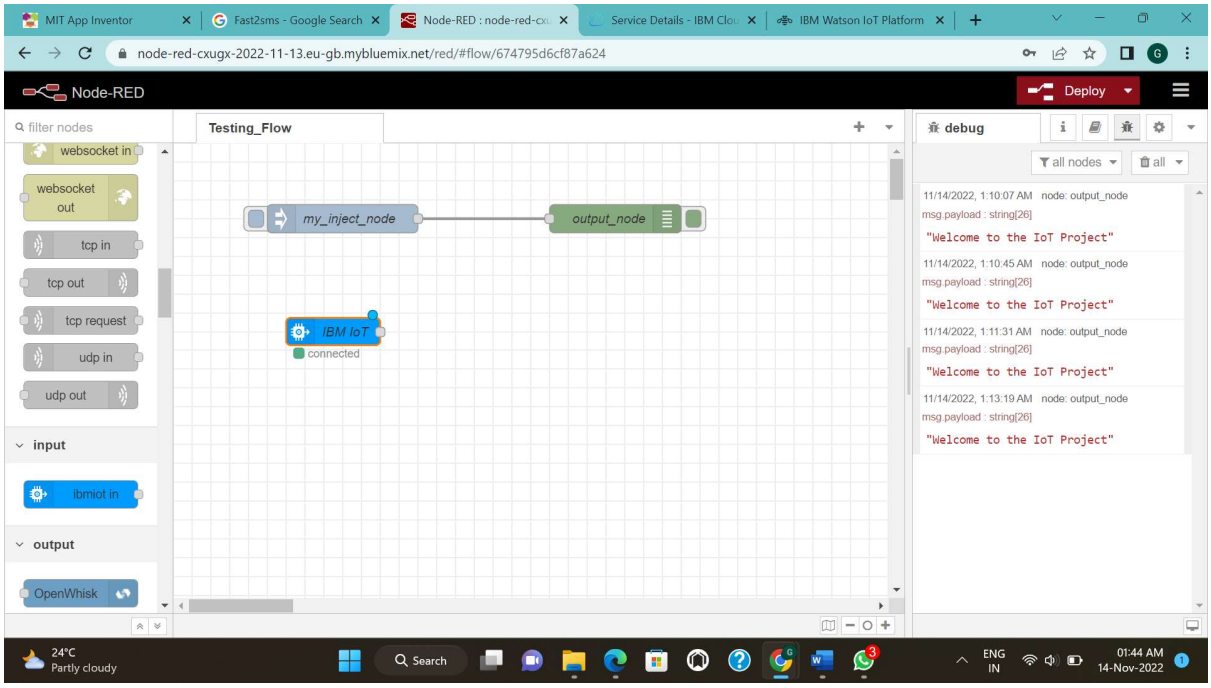

Finally, We built a Web-Application using Node-Red Services