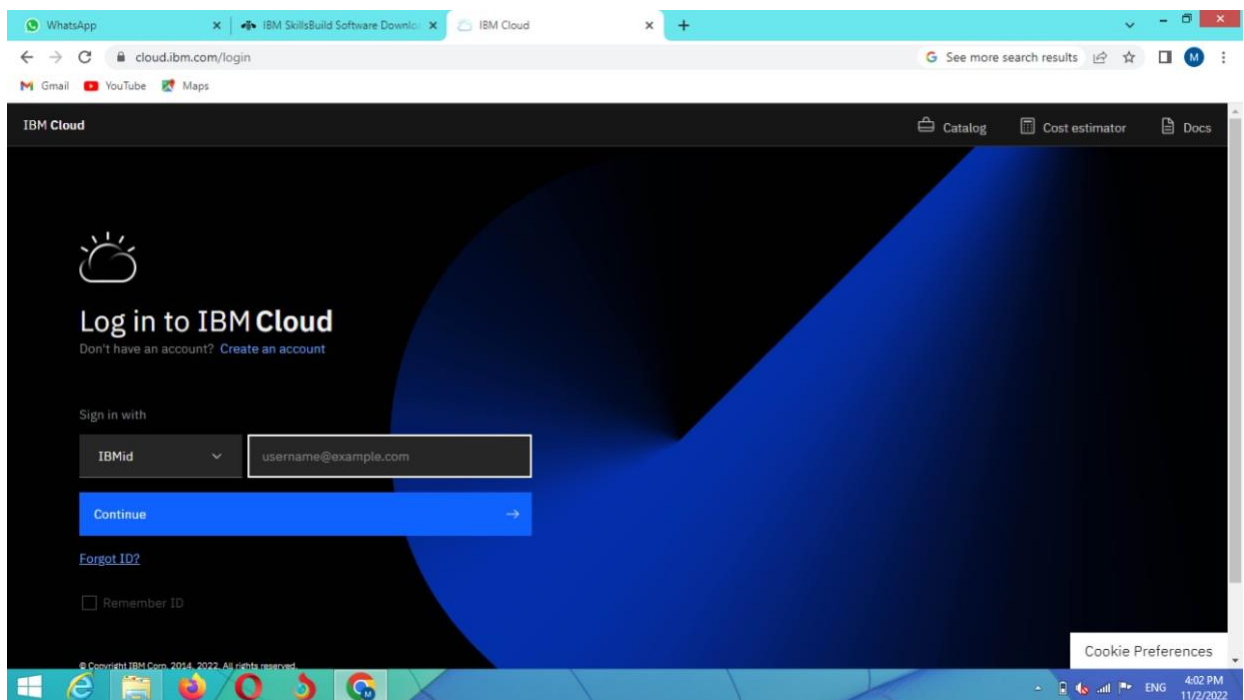


create And Configure IBM Cloud Service Create IBM Watson IoT Platform And Device

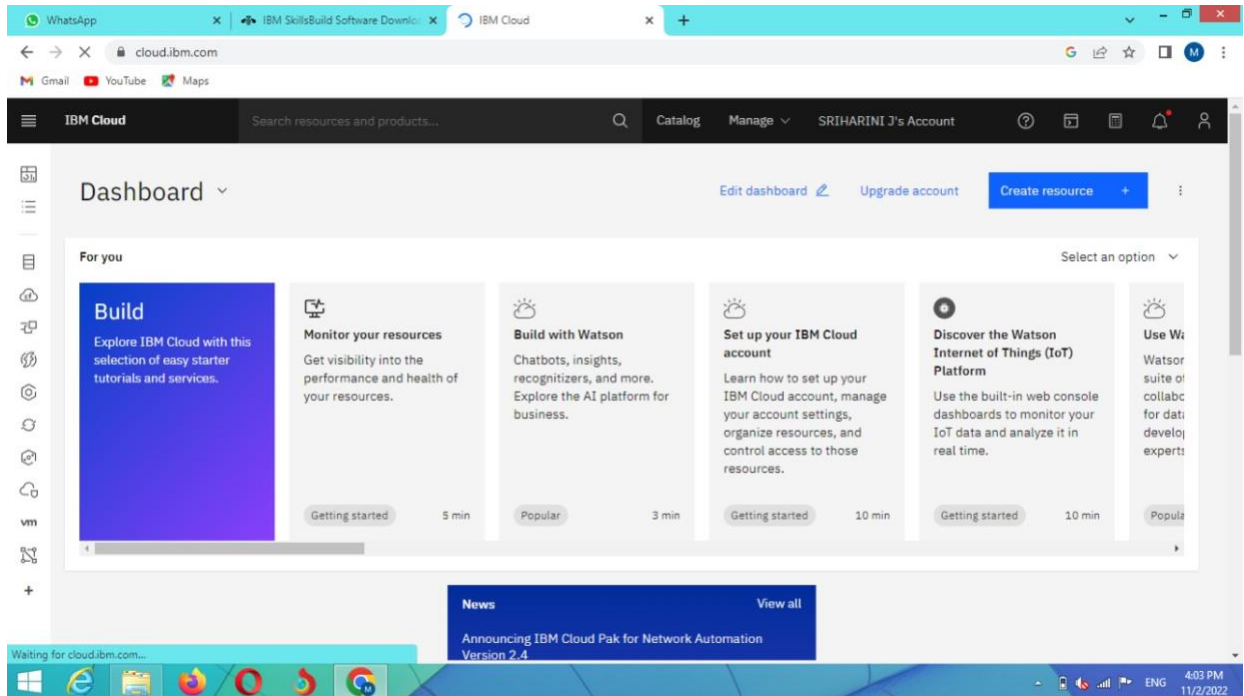
Date	03.11.2022
Team ID	PNT2022TMID41134
Project Name	Smartfarming – IOT Enabled smart farming application
Maximum Marks	4 Marks

STEPS

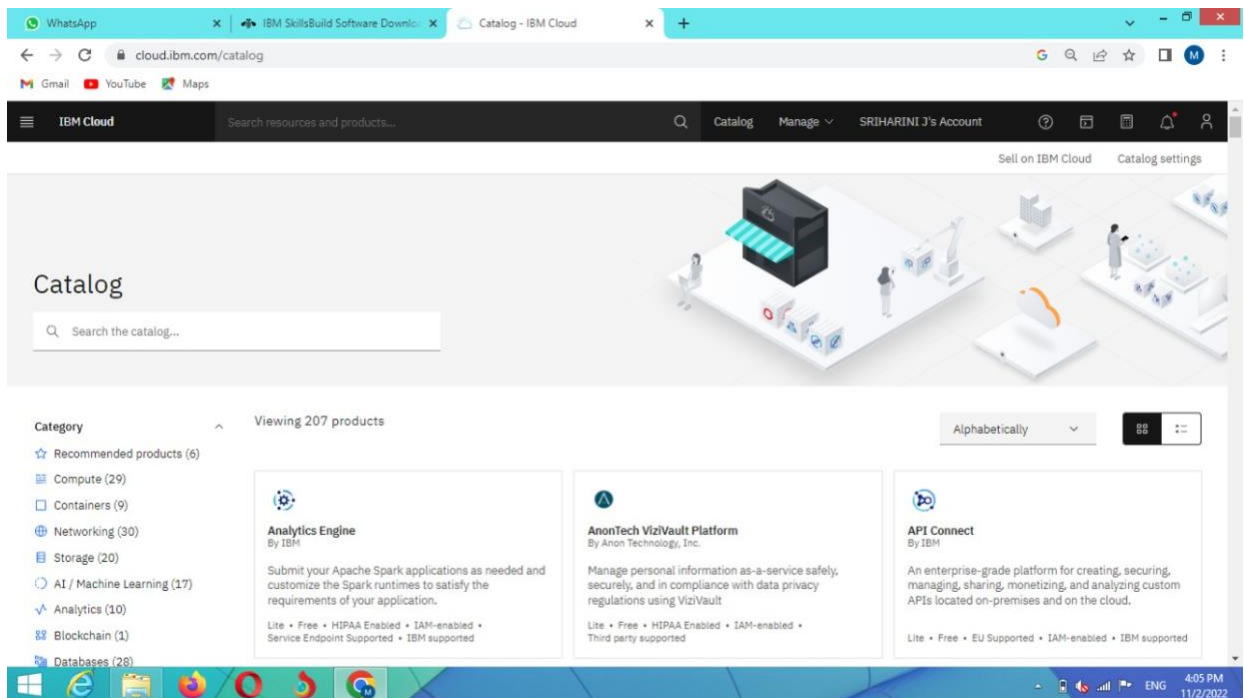
1. Firstly create an IBM cloud account with IBMid and password



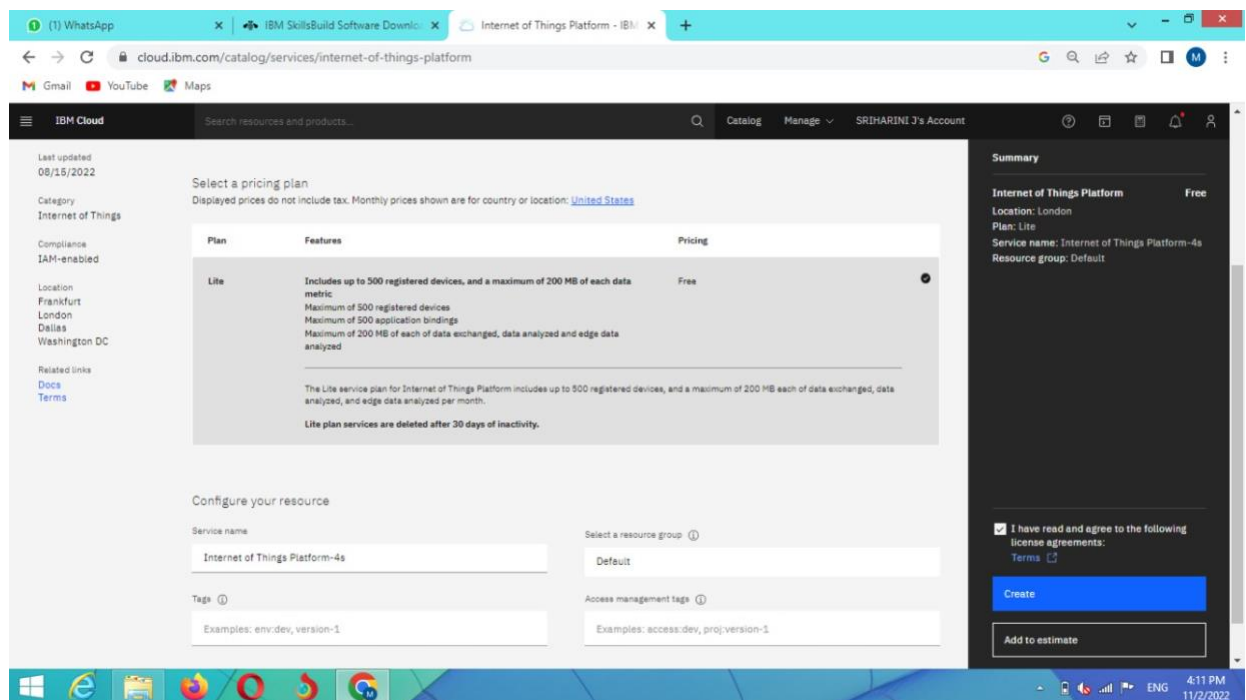
2. Home page of IBM cloud



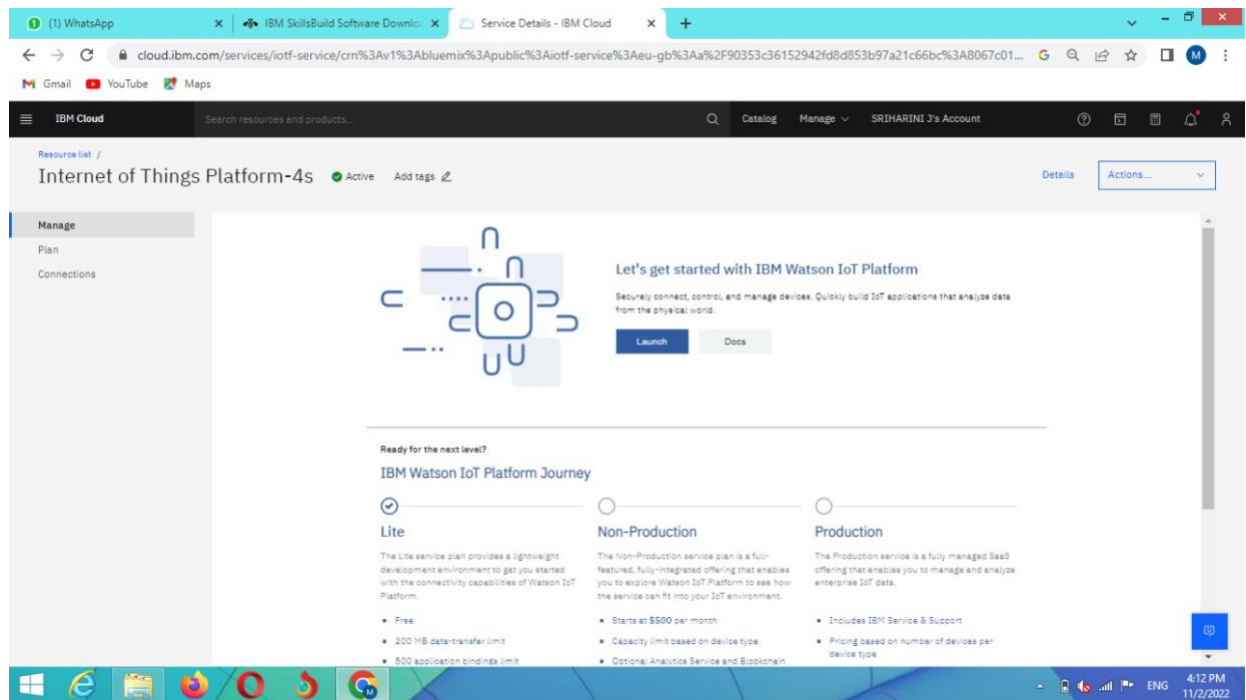
3. Click on the catalog on the top



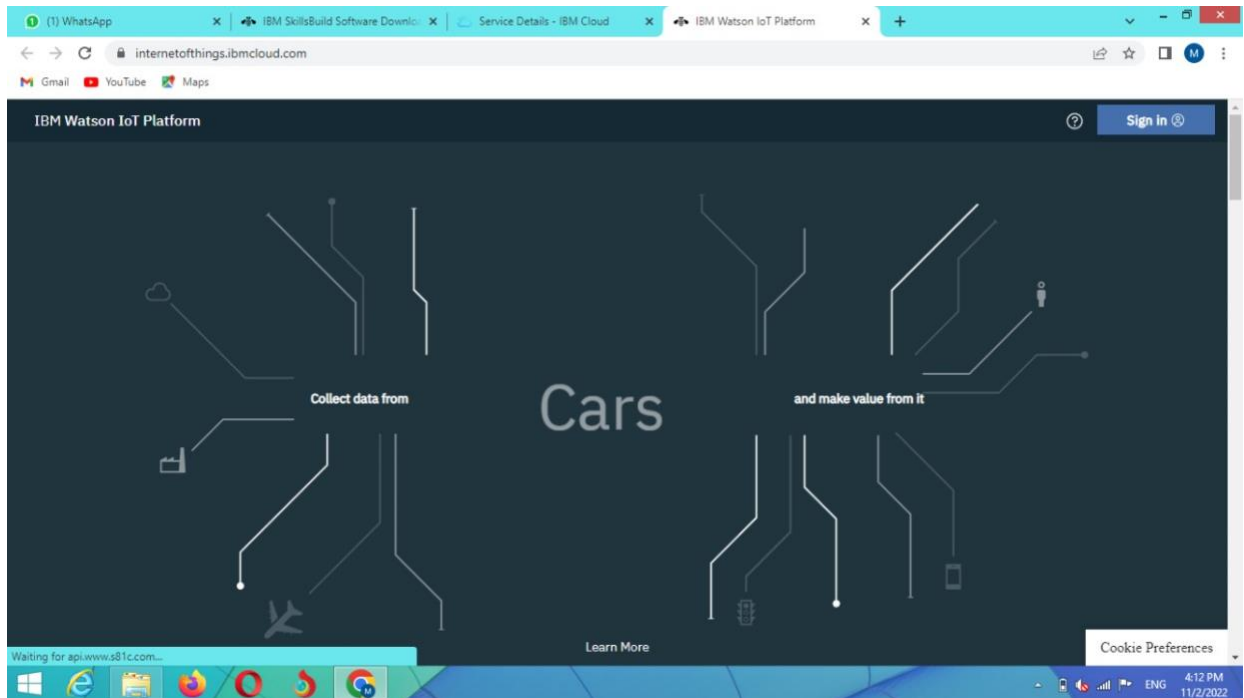
4. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with it agreements and then click on create



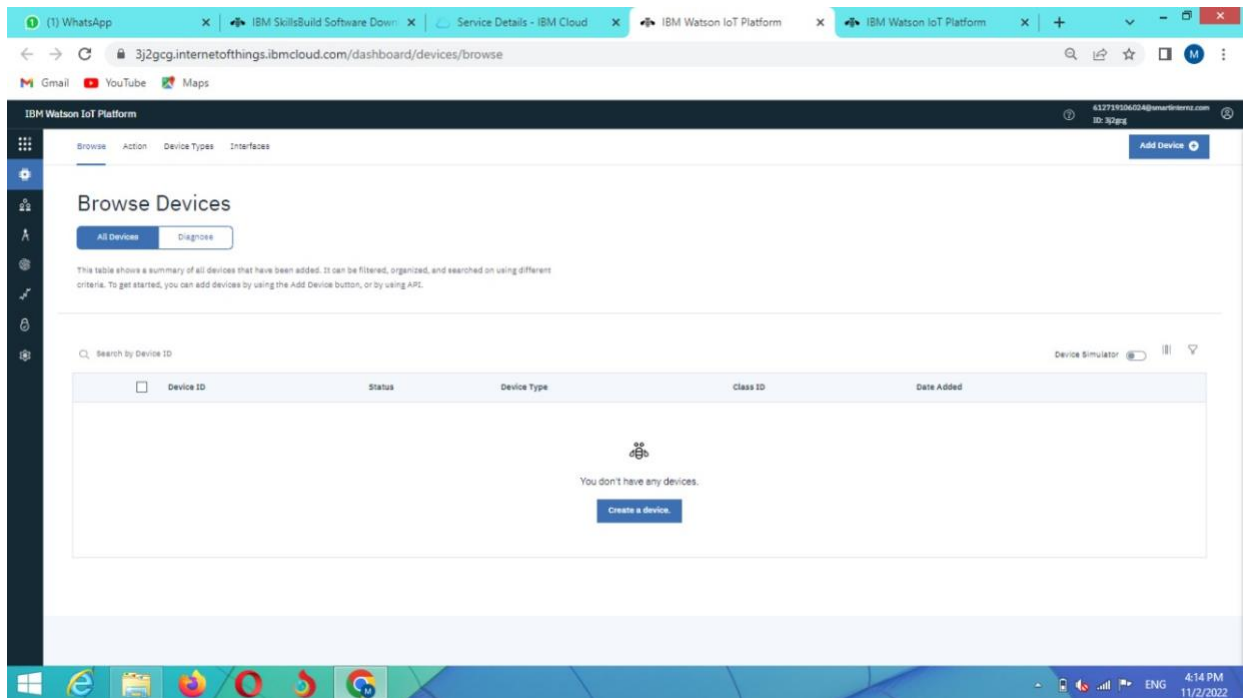
5. Internet of Things Platform will be created, where there are different options like manage, plan, and connection (manage is for launch, Plan gives us the idea about the payment package and its upgrades, and lastly the connection is for to connect IoT with other services)



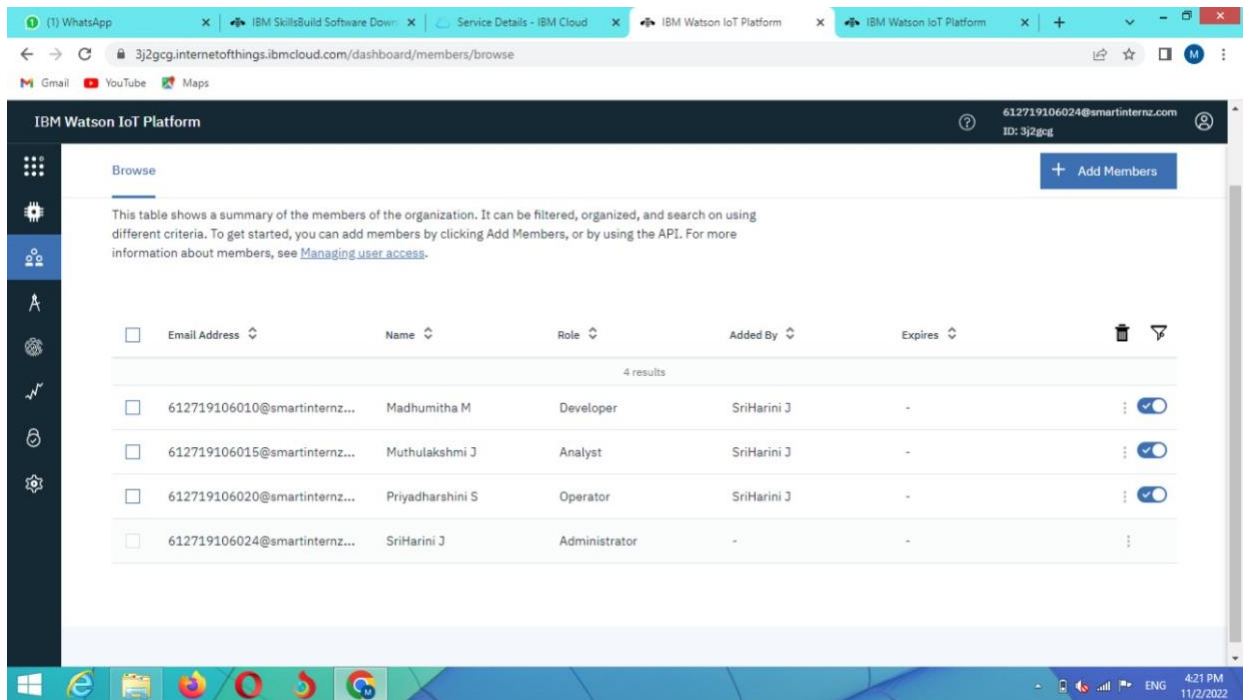
6. Clicking on the launch button in the manage tab, it will open to this



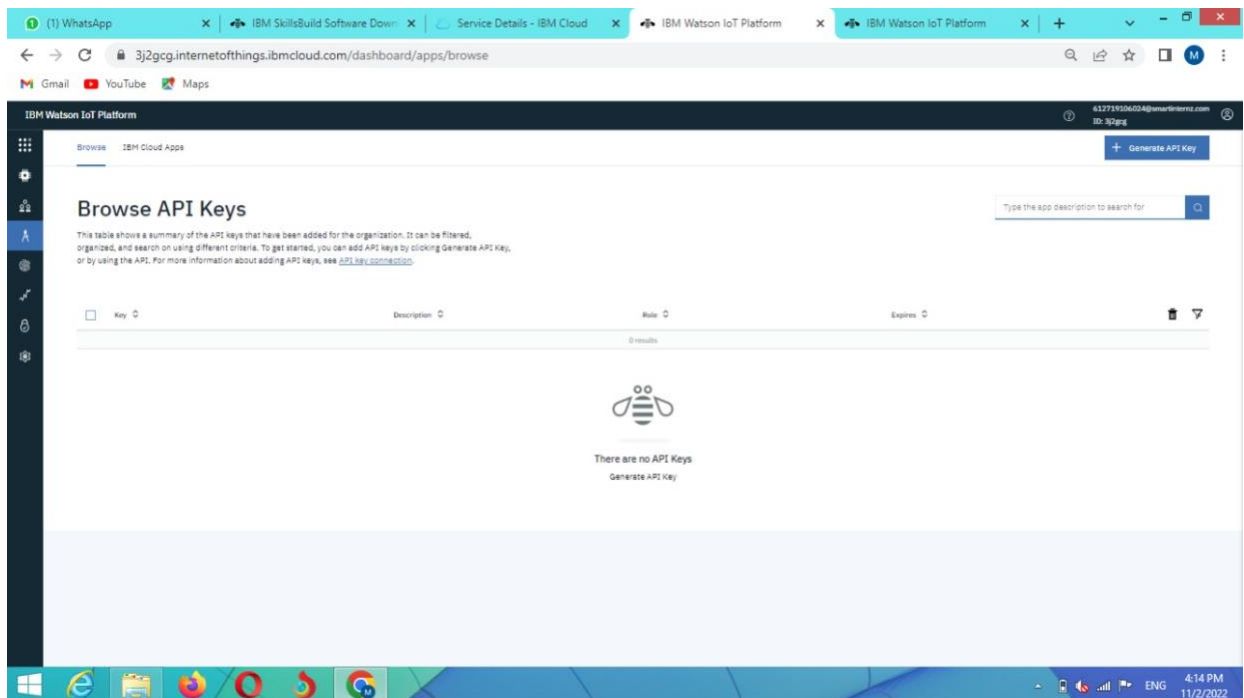
7. And again clicking on the launch button will open this tab, the device will help in the creation of the devices, the addition of devices, and the display of details of the devices



8. The member tab is add the teams members to work in the platform



9.This tab is used when you want to connect to some other platform and to integrate with other services.



10.Click on the device tab and click on the add device button, then give the device type and device id and click next

WhatsApp x IBM SkillsBuild Software Down x Service Details - IBM Cloud x IBM Watson IoT Platform x IBM Watson IoT Platform x

3j2gcg.internetofthings.ibmcloud.com/dashboard/devices/browse/add

Gmail YouTube Maps

IBM Watson IoT Platform 612719106024@smartinternz.com ID: 3j2gcg

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type ultrasonic

Device ID 1407

Cancel Next

Browse Devices

All Devices Diagrams

Windows Taskbar: 4:22 PM 11/2/2022

11.Thise to enter extra details and of the hardware

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3j2gcg.internetofthings.ibmcloud.com/dashboard/devices/browse/add

Gmail YouTube Maps

IBM Watson IoT Platform 612719106024@smartinternz.com ID: 3j2gcg

Browse Action Device Types Interfaces

Identity Device Information Security Summary

You can modify the default device information and enter more information about the device for identification purposes.

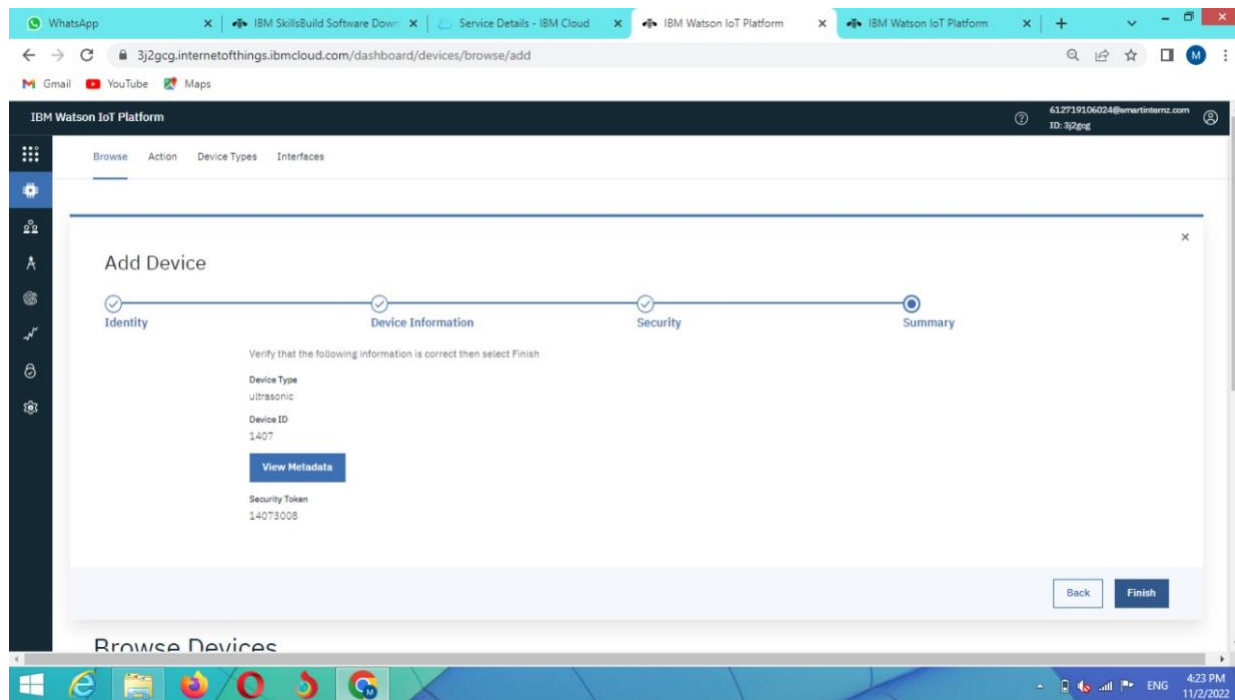
Serial Number	Enter Serial Number	Manufacturer	Enter Manufacturer
Model	Enter Model	Device Class	Enter Device Class
Description	Enter Description	Firmware Version	Enter Firmware Version
Hardware Version	Enter Hardware Version	Descriptive Location	Enter Descriptive Location

Add Metadata +

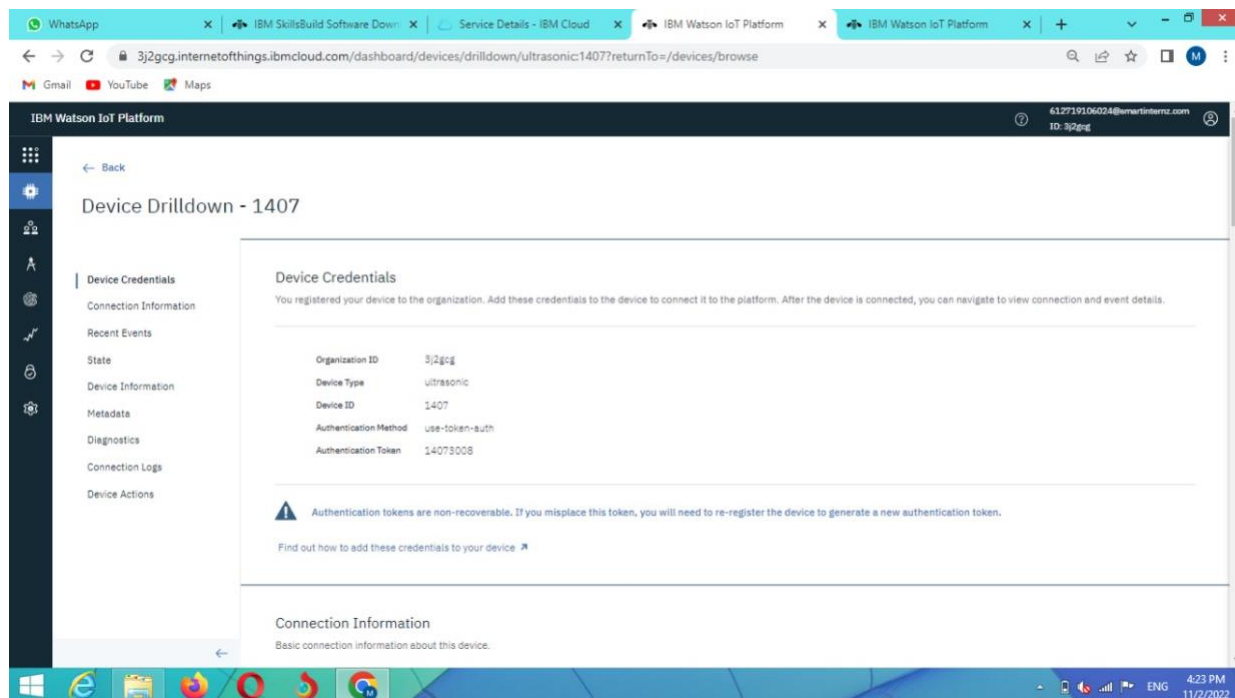
Back Next

Windows Taskbar: 4:23 PM 11/2/2022

12. Clicking it goes to the summary of the device then click finish



13. The device credentials will be displayed with all the details



Safe the details of the device as the authentication tokens are nonrecoverable and if misplaced then we have to create a new one.

14. Clicking on the device tab we can now see the added device. Clicking on it will display the other details.

It has different tabs like Identity, Device Information, State and login.

WhatsApp x IBM SkillsBuild Software Down x Service Details - IBM Cloud x IBM Watson IoT Platform x IBM Watson IoT Platform x

3j2gcg.internetofthings.ibmcloud.com/dashboard/devices/drilldown/ultrasonic:1407?returnTo=/devices/browse

Gmail YouTube Maps

IBM Watson IoT Platform 612719106024@ibmcloud.com ID: 3j2gcg

← Back

Device Drilldown - 1407

Device Credentials

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID	3j2gcg
Device Type	ultrasonic
Device ID	1407
Authentication Method	use-token-auth
Authentication Token	14073008

⚠ Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

[Find out how to add these credentials to your device](#)

Connection Information

Basic connection information about this device.

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WhatsApp x IBM SkillsBuild Software Down x Service Details - IBM Cloud x IBM Watson IoT Platform x IBM Watson IoT Platform x

3j2gcg.internetofthings.ibmcloud.com/dashboard/devices/drilldown/ultrasonic:1407?returnTo=/devices/browse

Gmail YouTube Maps

IBM Watson IoT Platform 612719106024@ibmcloud.com ID: 3j2gcg

← Back

Device Drilldown - 1407

Device Credentials

Connection Information

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State

Device Information

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Diagnostics

Connection Logs

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[Find out how to add these credentials to your device](#)

Connection Information

Basic connection information about this device.

Untitled - Notepad

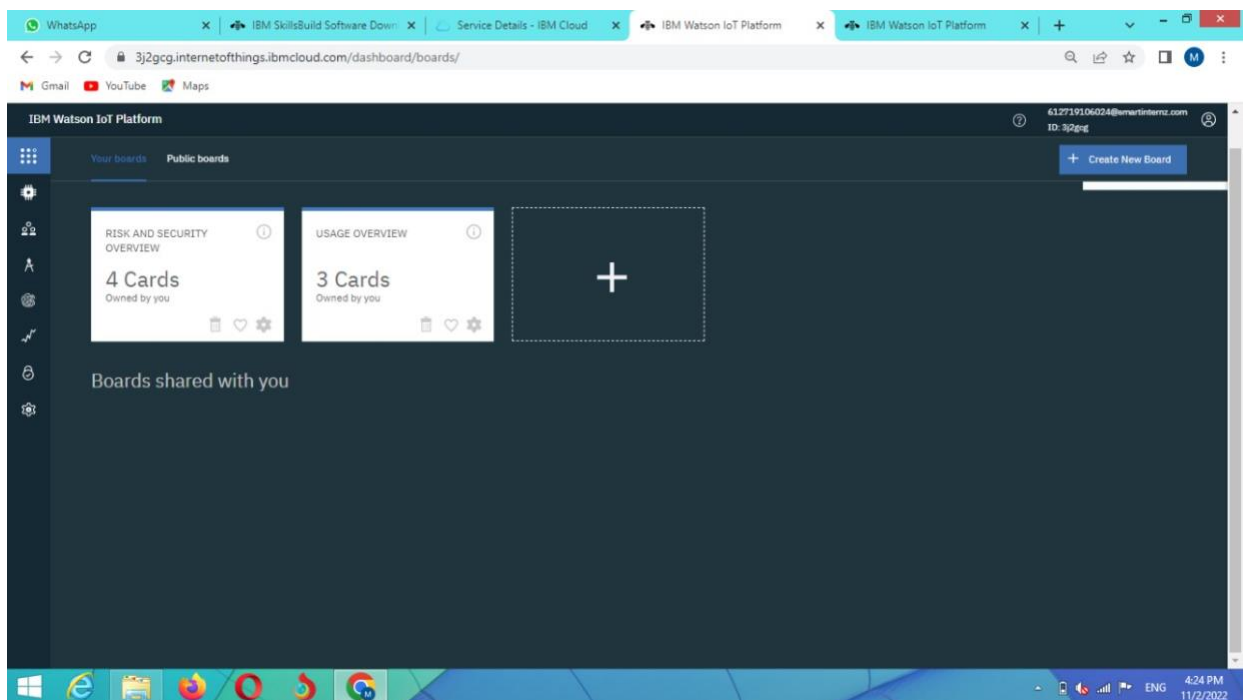
File Edit Format View Help

```
Organization ID
3j2gcg
Device Type
ultrasonic
Device ID
1407
Authentication Method
use-token-auth
Authentication Token
14073008
```

Windows taskbar: 4:24 PM 11/2/2022

In a similar way, we can create n number of devices with a 50 per page limit as per the requirement of our project.

15.The Boards will display card for the project.



RESULT:

An IBM Watson cloud for IoT and a device is created

TEAM ID : PNT2022TMID41134

TEAM LEADER : SRIHARINI J
TEAM MEMBER 1 : MUTHULAKSHMI J
TEAM MEMBER 2 : MADHUMITHA M
TEAM MEMBER 3 : PRIYADARSHINI S