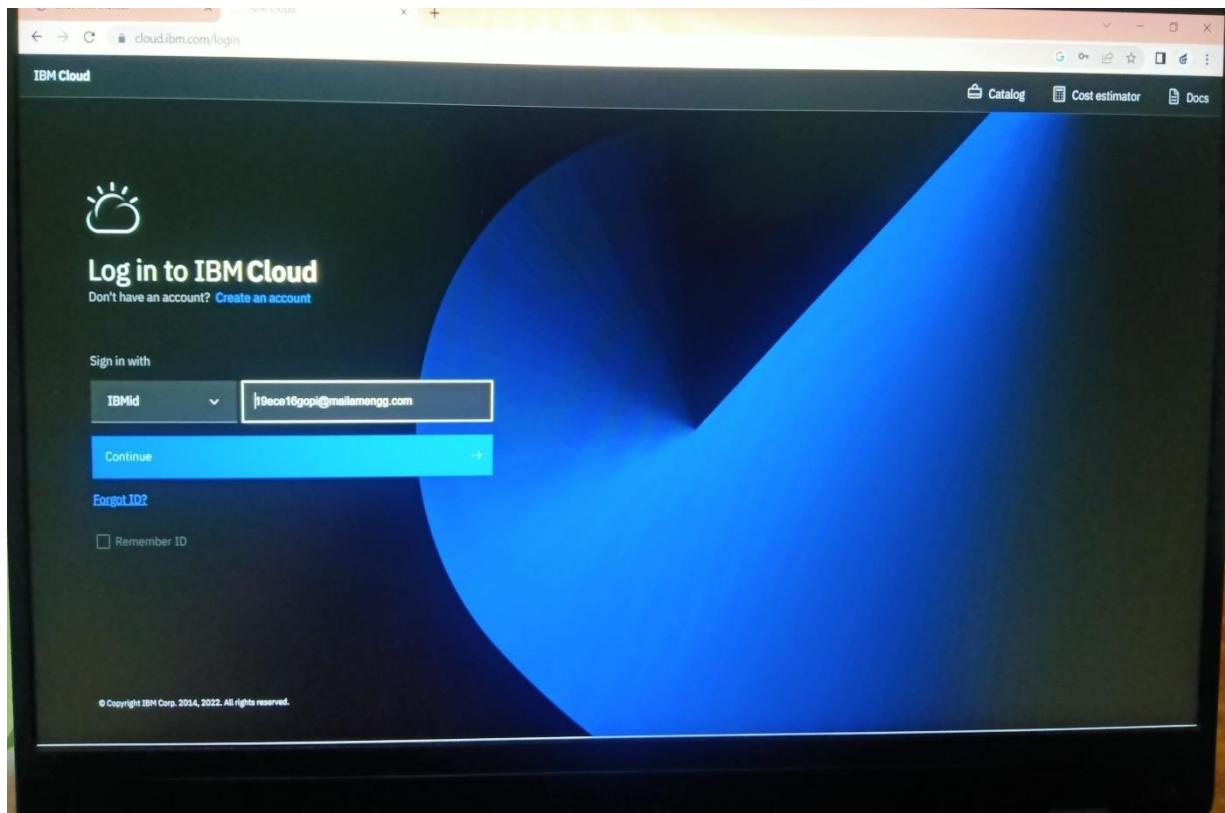


## CREATE IBM WATSON IOT PLATFORM AND DEVICE

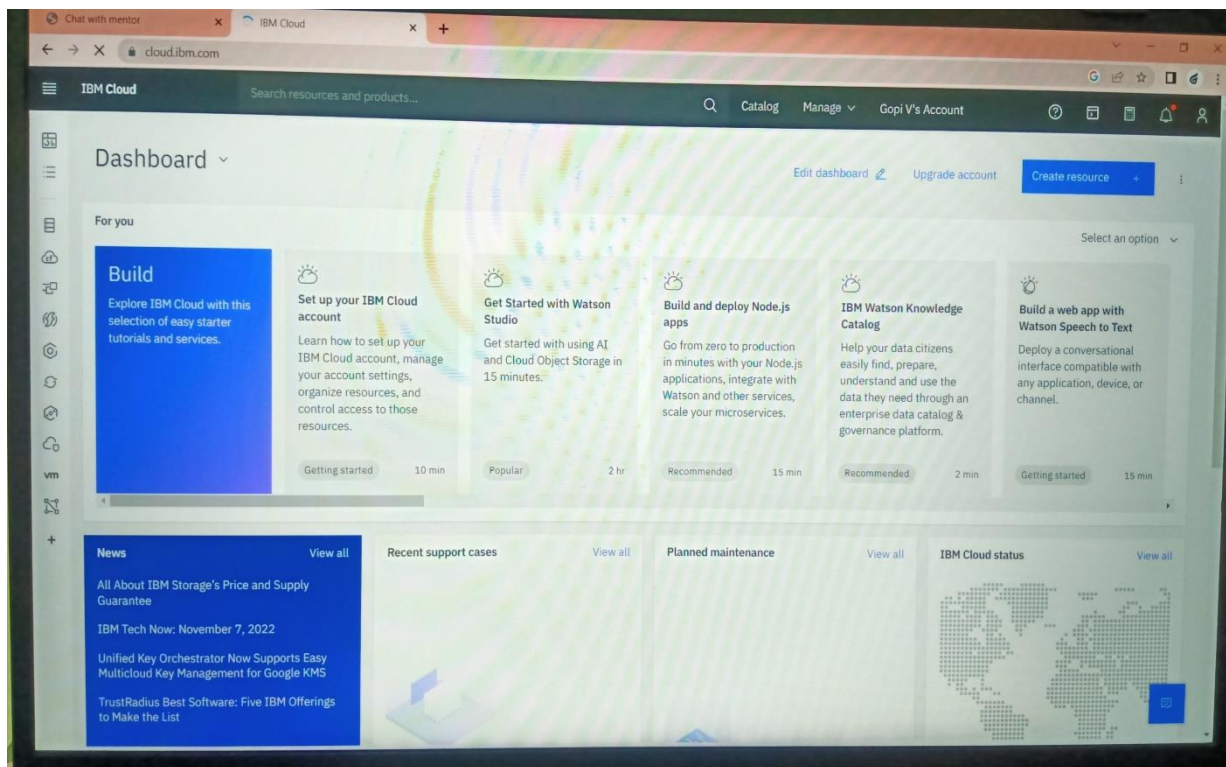
<b>Title</b>	IoT Based Safety Gadget for Child Safety Monitoring and Notification.
<b>Domain Name</b>	Internet of Things (IOT)
<b>Team Lead</b>	Gopi V
<b>Team Member</b>	Raja K Nandakumar A Sundaramoorthy A
<b>Mentor</b>	Suganya J
<b>Team ID</b>	PNT2022TMID29157
<b>College Name</b>	Mailam Engineering College
<b>Department</b>	Electronics and Communication Engineering

### STEPS:

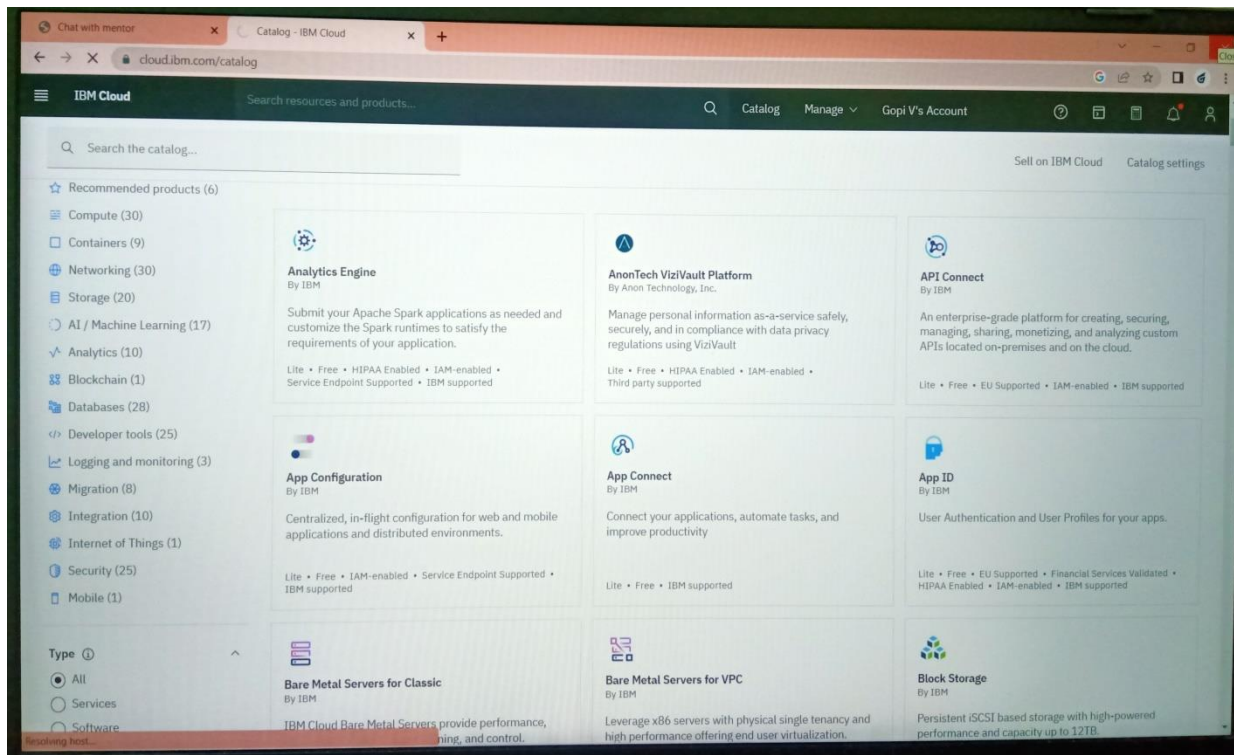
1. Firstly, create an IBM cloud account with IBMid and password.



## 2. Home page of IBM cloud.



## 3. Click on the catalog on the top.



Click on IoT in the category mentioned.

The screenshot shows the IBM Cloud catalog page for the Internet of Things Platform. The location is set to Dallas (us-south). The pricing table shows a 'Lite' plan for free. A summary panel on the right shows the service details and a warning about existing Lite plan instances.

**Internet of Things Platform**

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

**Create** **About**

Select a location

Dallas (us-south)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

Lite plan services are deleted after 30 days of inactivity.

**Summary**

**Internet of Things Platform** **Free**

Location: Dallas  
Plan: Lite  
Service name: Internet of Things Platform-7z  
Resource group: Default

**Existing Lite plan instance**  
You can have only 1 Lite plan instance of this service per resource group. [Delete](#) your current Lite plan instance in Default resource group to create a new one, or [view the existing instance](#).

☐ I have read and agree to the following license agreements: [Terms](#)

**Create**

**Add to estimate**

4. If already a lite is provided delete if else u can't create another.

The screenshot shows the IBM Cloud catalog page for the Internet of Things Platform. The location is set to Frankfurt (eu-de). The pricing table shows a 'Lite' plan for free. The summary panel on the right shows the service details.

**Internet of Things Platform**

This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.

**Create** **About**

Select a location

Frankfurt (eu-de)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	Includes up to 500 registered devices, and a maximum of 200 MB of each data metric Maximum of 500 registered devices Maximum of 500 application bindings Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed	Free

The Lite service plan for Internet of Things Platform includes up to 500 registered devices, and a maximum of 200 MB each of data exchanged, data analyzed, and edge data analyzed per month.

Lite plan services are deleted after 30 days of inactivity.

**Summary**

**Internet of Things Platform** **Free**

Location: Frankfurt  
Plan: Lite  
Service name: Internet of Things Platform-9m  
Resource group: Default

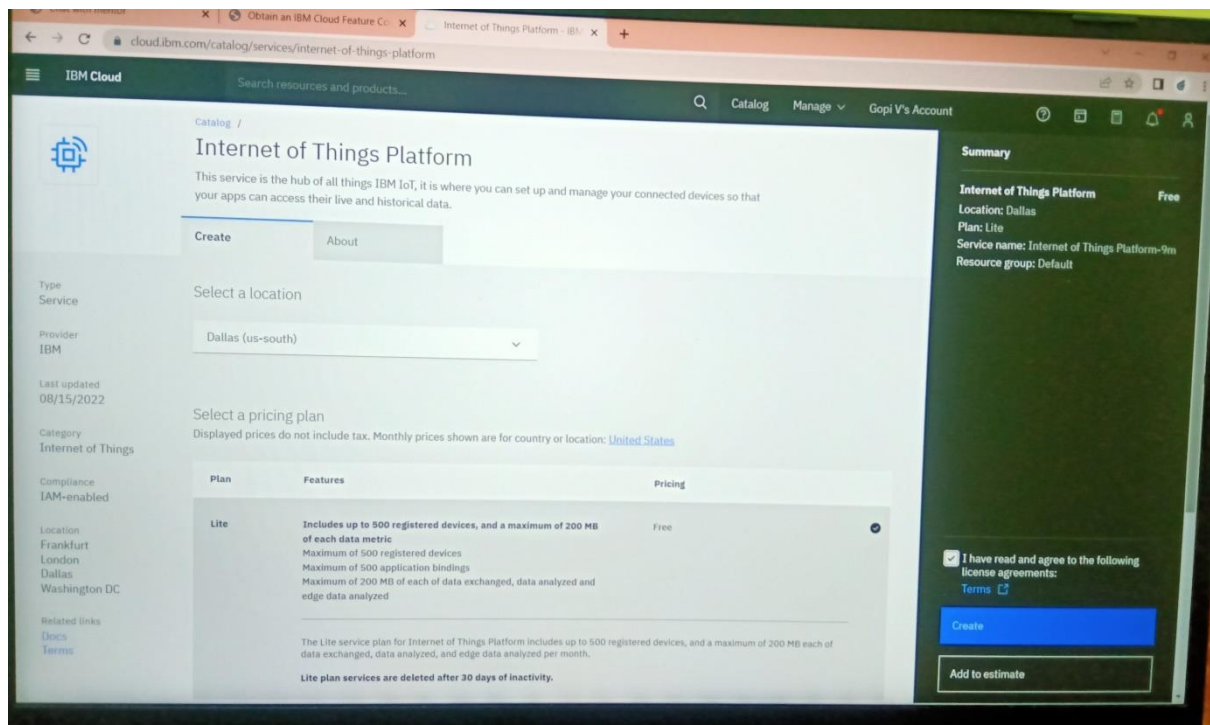
☐ I have read and agree to the following license agreements: [Terms](#)

**Create**

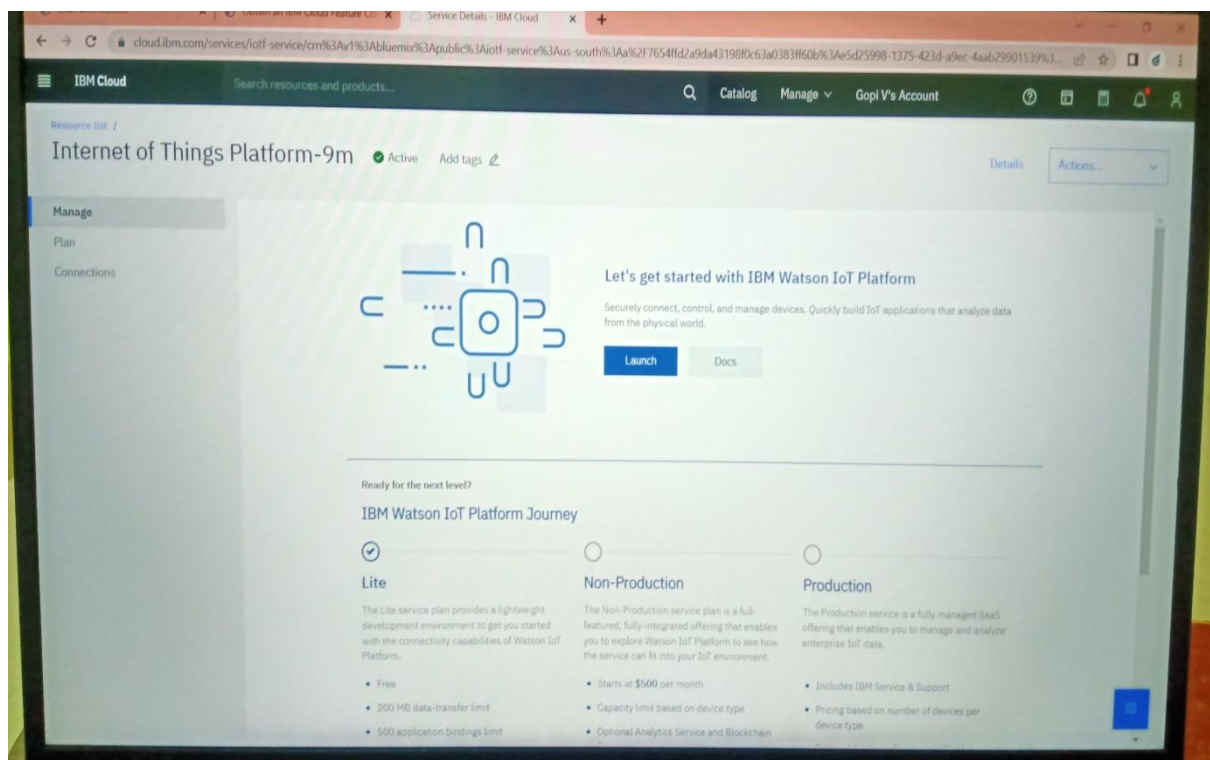
**Add to estimate**

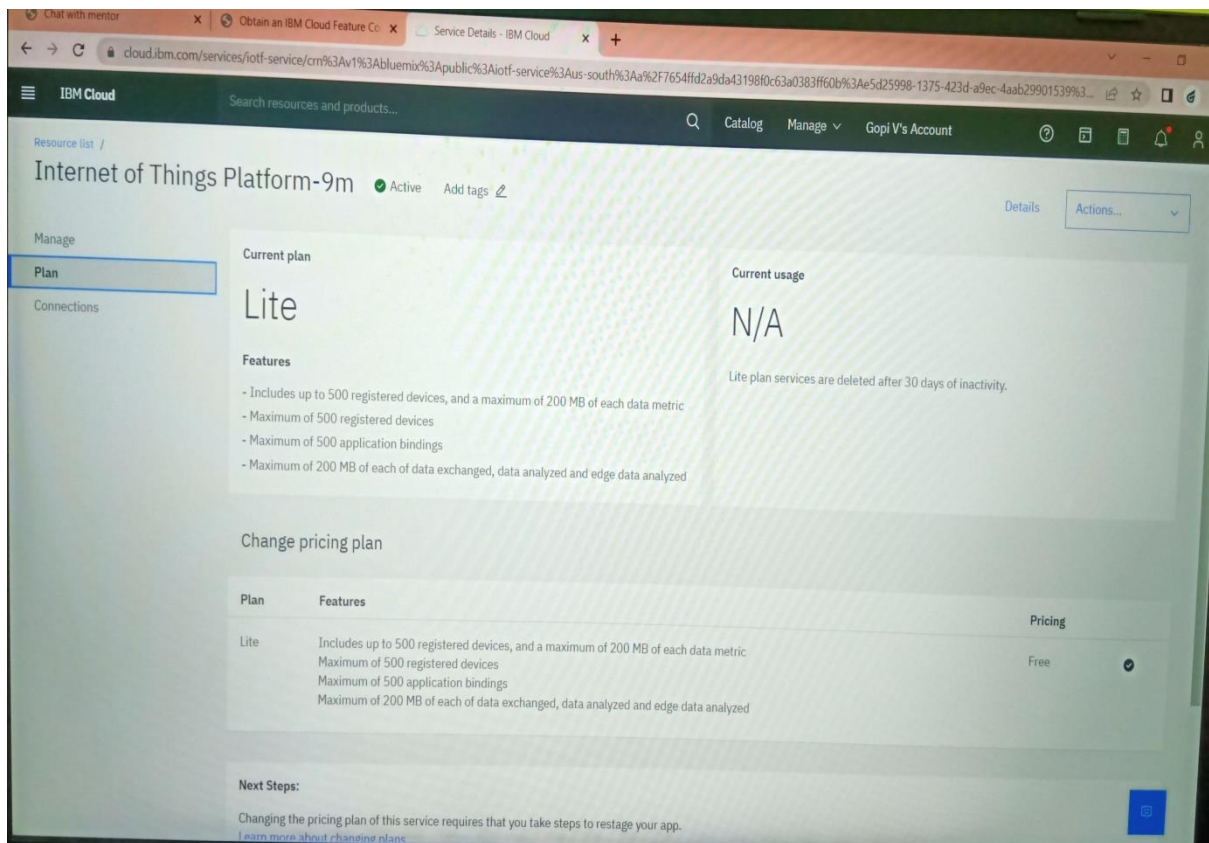


5. Enter the location and in the configure your resource type the service name and choose the plan, tick the agree with agreements and then click on create.

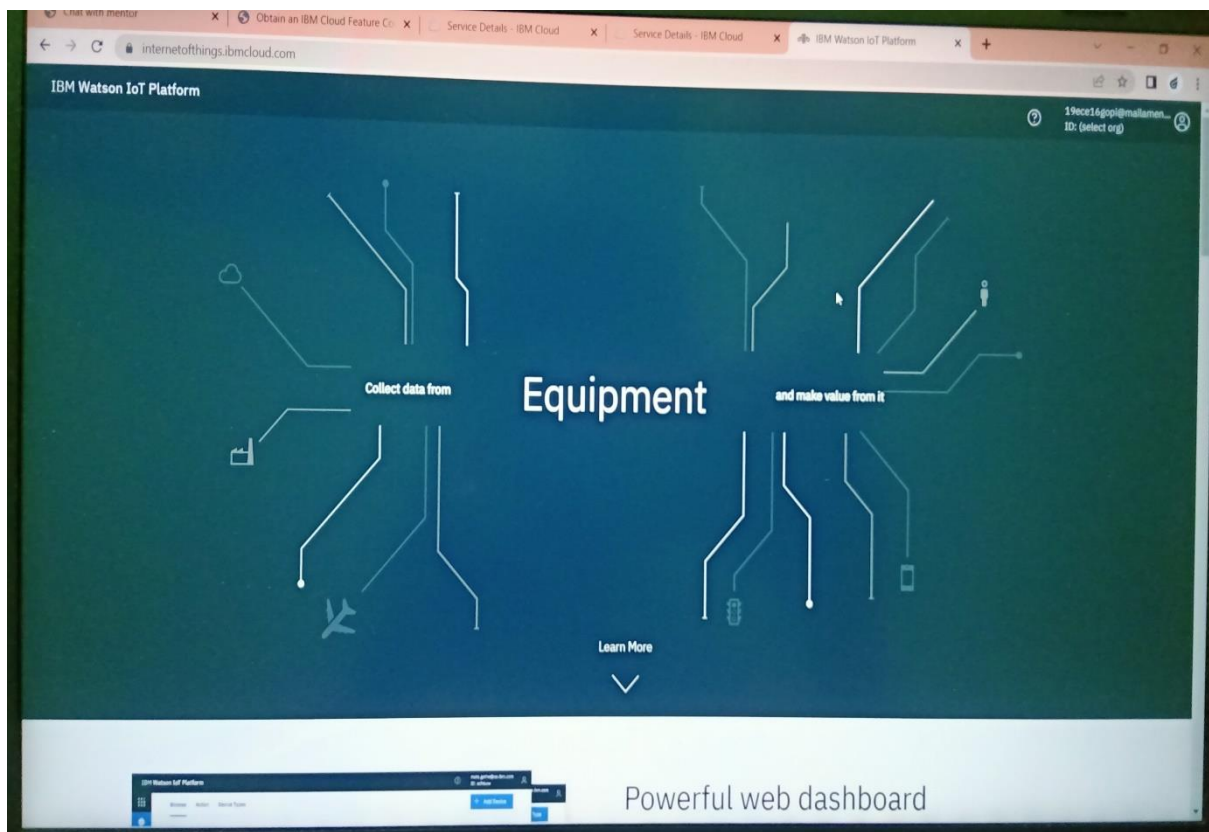


6. Internet of Things platform child safety will be created , where there are different option like manage, plan, and connection.

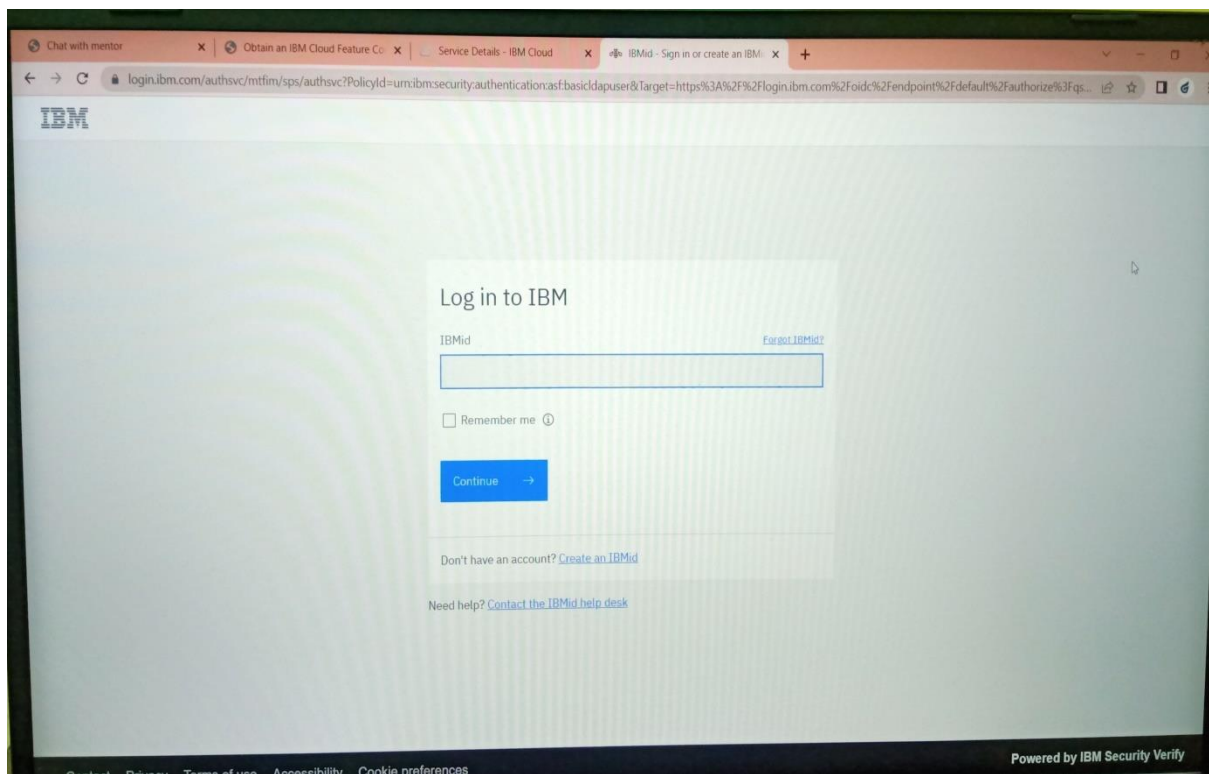




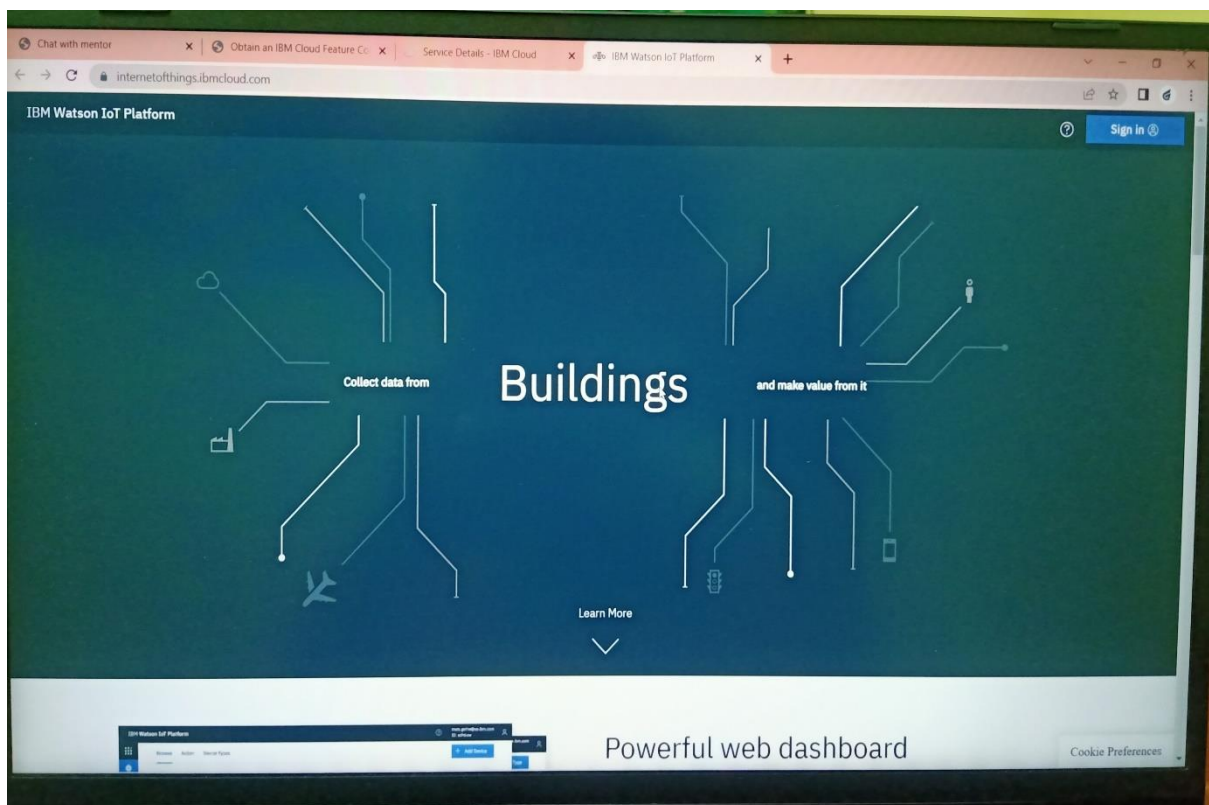
7. Clicking on the launch button in the manage tab, it will open to this.



8. Enter the details to sign into the Watson Cloud to create a device.

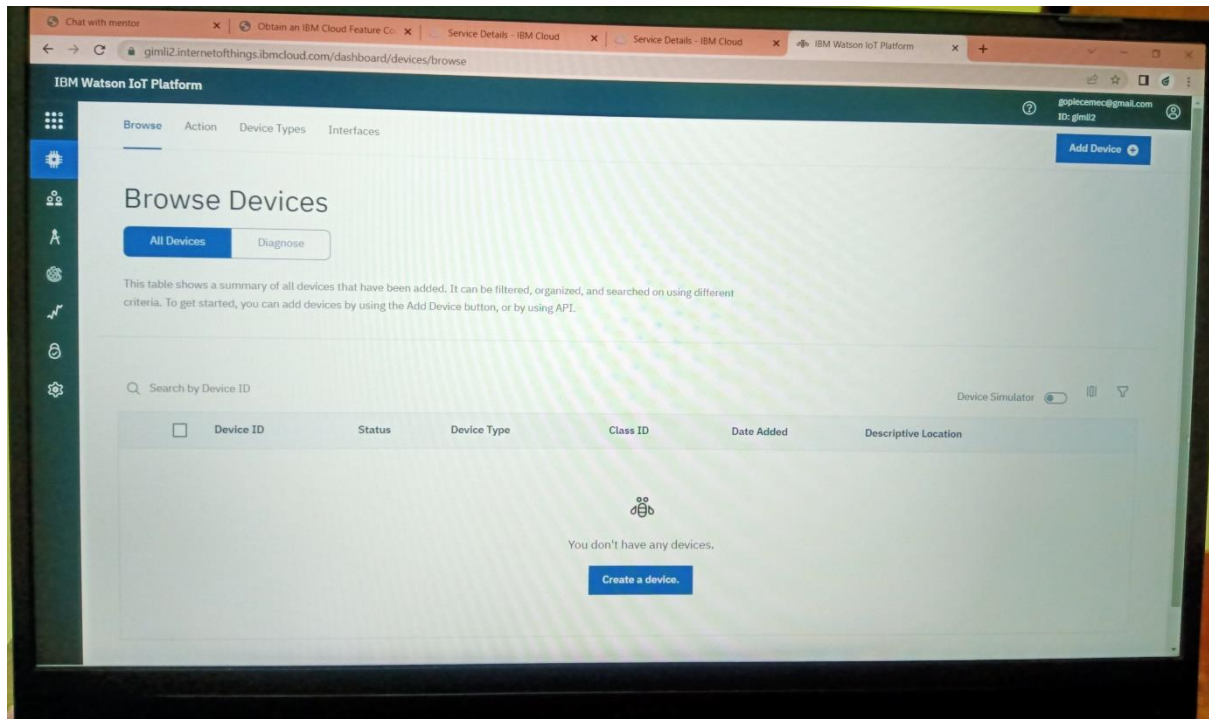


9. Once logged in the name will be displayed and it goes back to the first page.

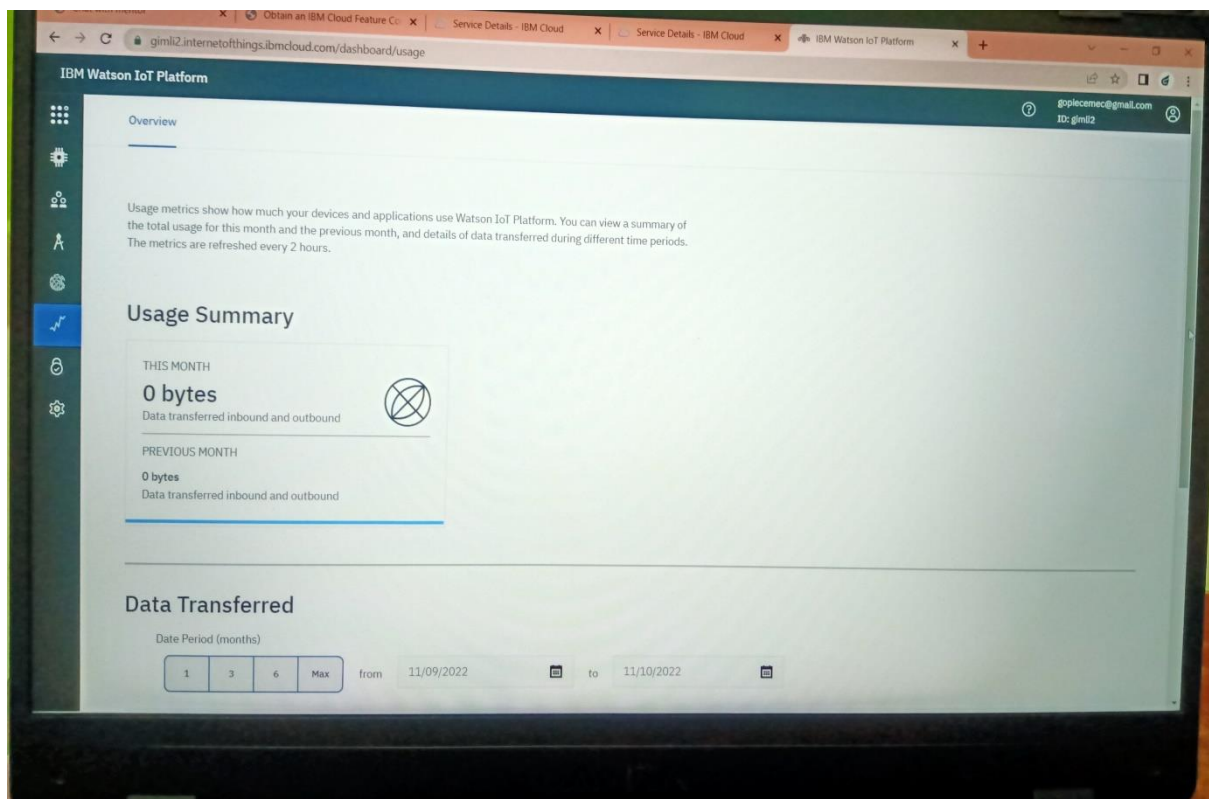




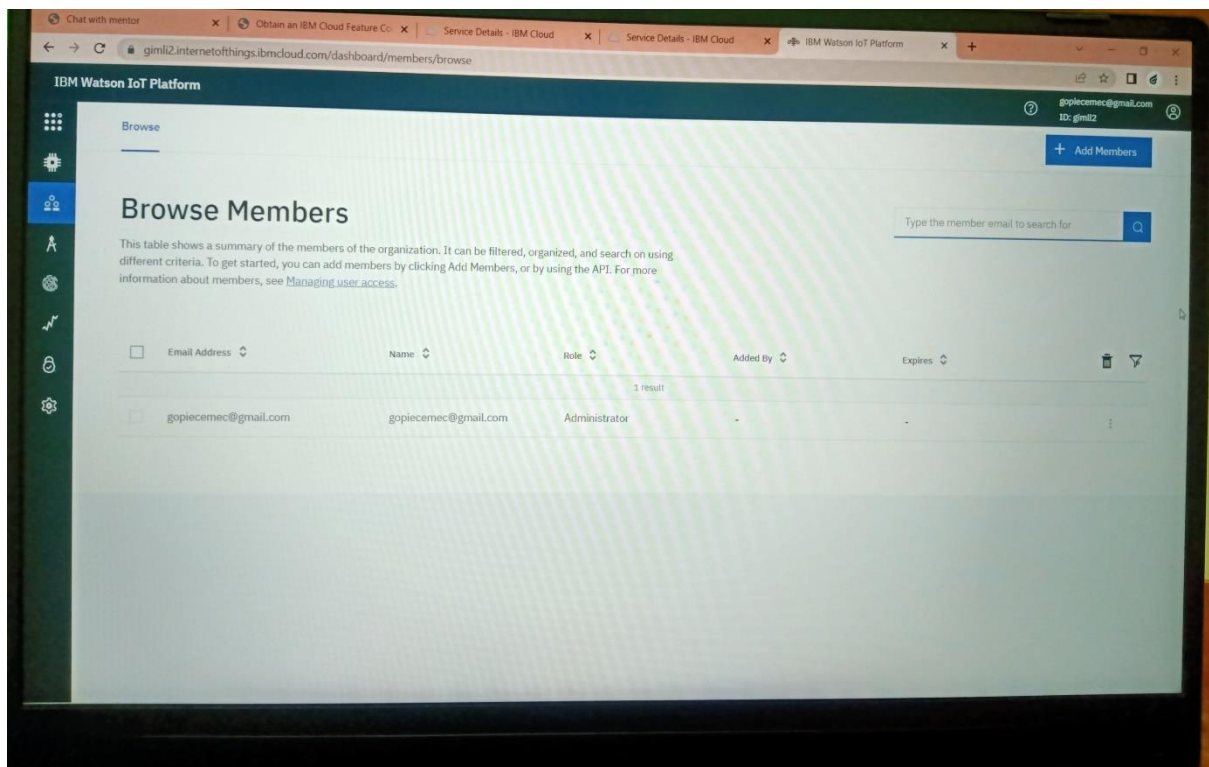
10. And again clicking on the launch button will open this tabs, the device will help in the creation of the devices, and the display of details of the devices.



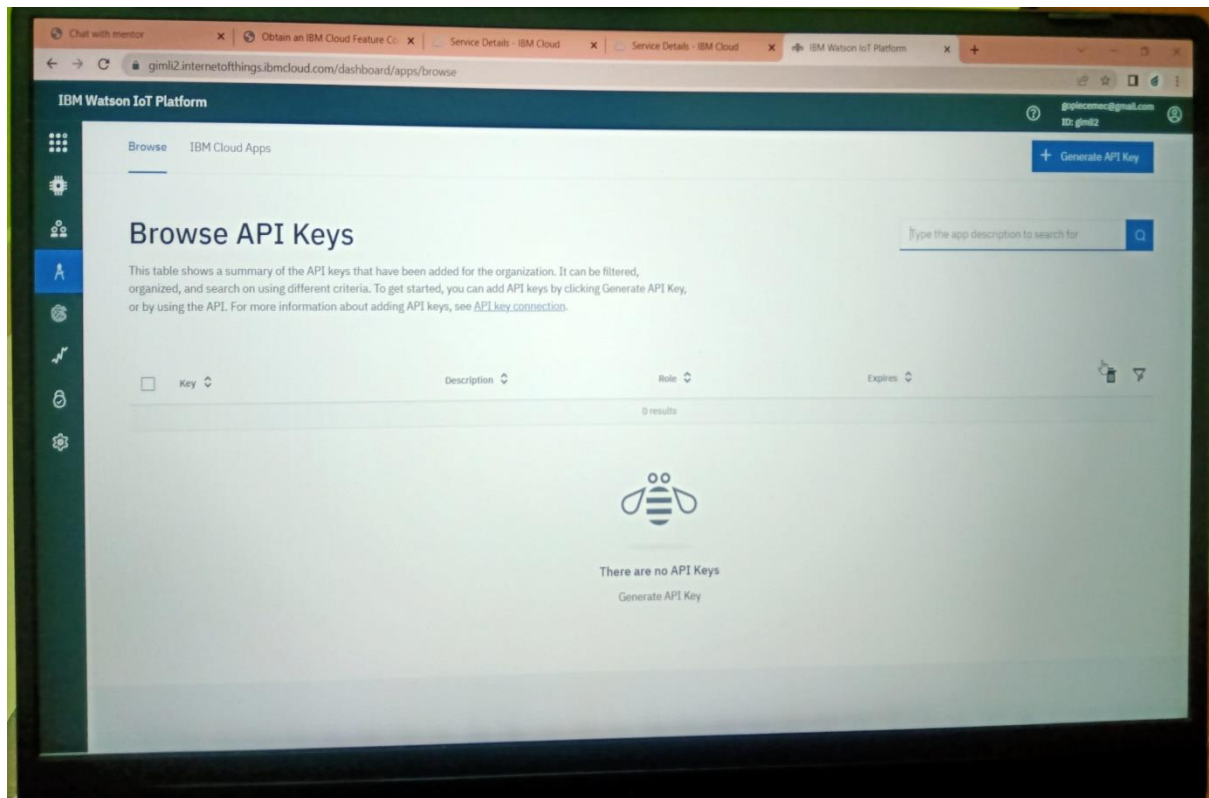
11. Usage gives the summary of how many bytes are used between the devices and the IBM cloud.



12.The member tab is adding the teams' members to work in the platform.



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





14. Click on the devices tab and click on the add devices button, then give the devices type and devices id and click next.

IBM Watson IoT Platform

giml2.internetofthings.ibmcloud.com/dashboard/devices/browse/add

giml2

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 Select or create a device type...

Device ID Enter Device ID

Cancel Next

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

IBM Watson IoT Platform

giml2.internetofthings.ibmcloud.com/dashboard/devices/browse/add

giml2

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 Nodemcu

Device ID 199795

Cancel Next

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

15. This page to enter extra details and of the hardware.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The progress bar indicates four steps: Identity (completed), Device Information (current), Security, and Summary. The 'Device Information' step contains several input fields for device metadata:

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

There is an 'Add Metadata' button with a plus icon. At the bottom right are 'Back' and 'Next' buttons.

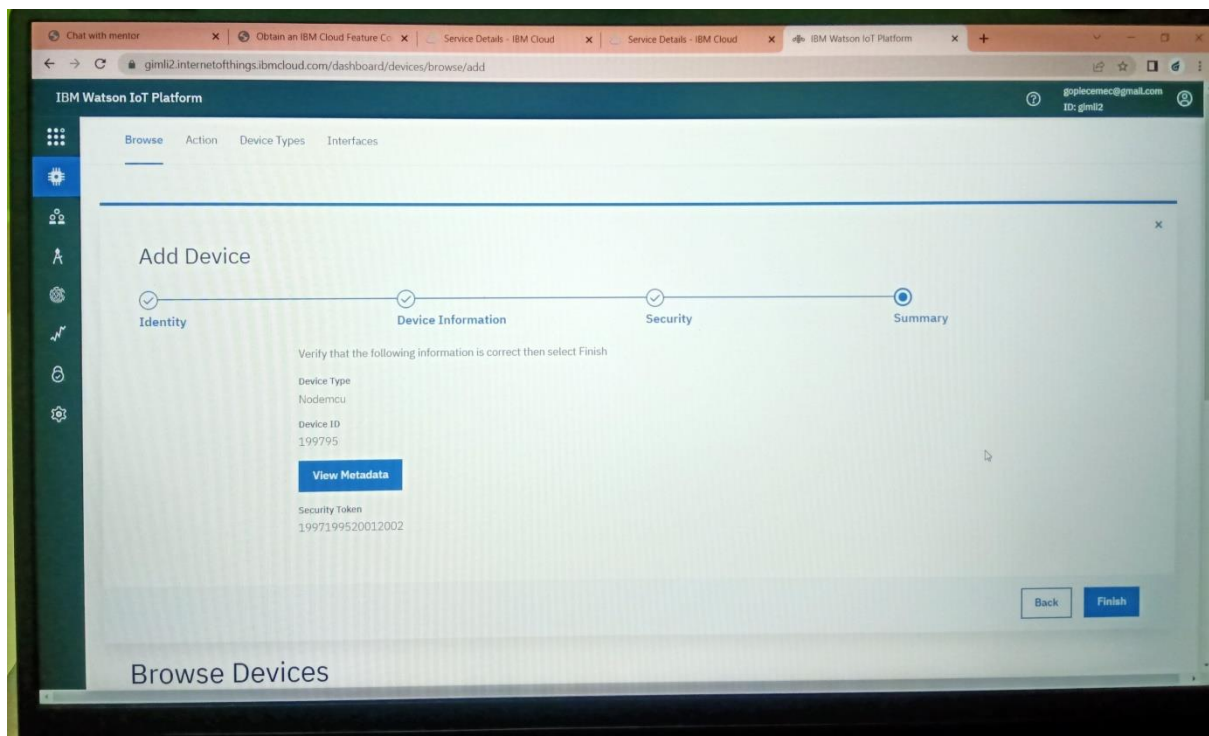
16. Clicking next it goes to the security where we do authentication token id.

The screenshot shows the 'Add Device' wizard at the 'Security' step. The progress bar shows Identity, Device Information (completed), Security (current), and Summary. The page presents two options for selecting a device authentication token:

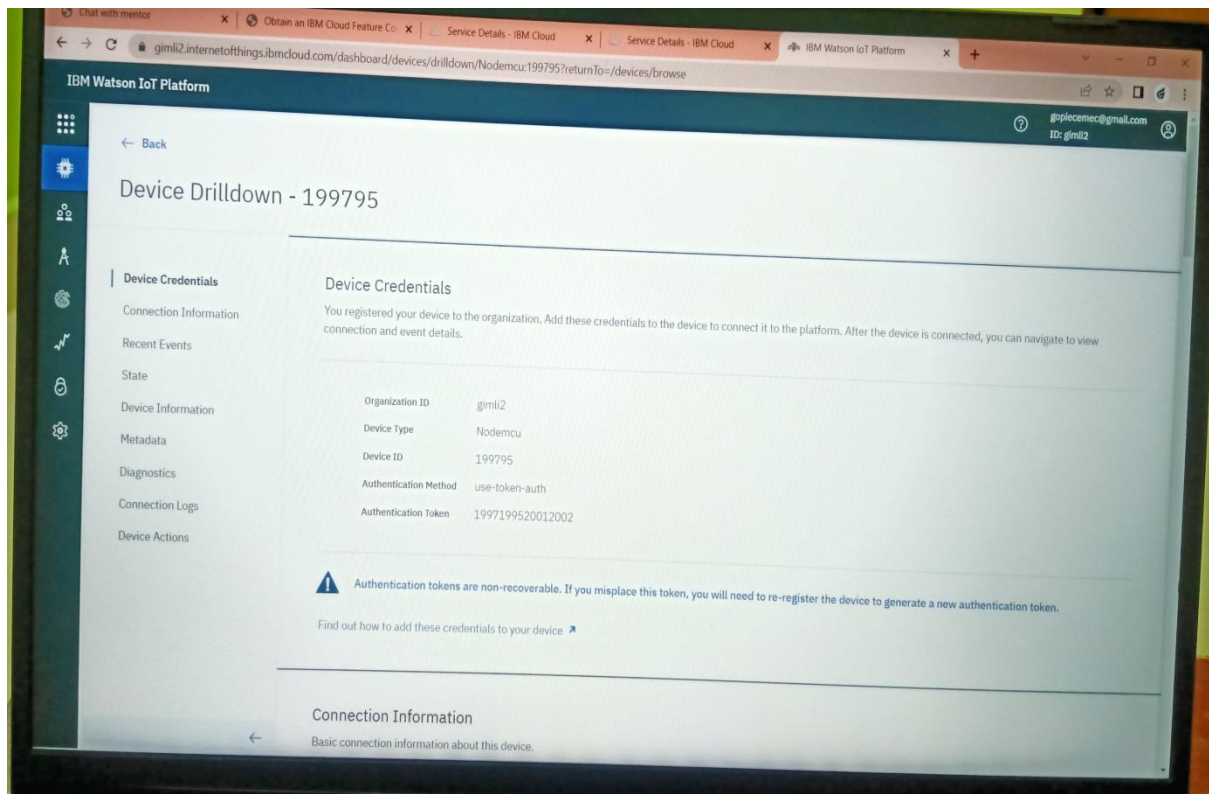
- Auto-generated authentication token (default)**: Allow the service to generate an authentication token for you. Tokens are 18 characters and contain a mix of alphanumeric characters and symbols. The token is returned to you at the end of the device registration process.
- Self-provided authentication token**: Provide your own authentication token for this device. The token must be between 8 and 36 characters and contain a mix of lowercase and uppercase letters, numbers, and symbols, which can include hyphens, underscores, and periods. Do not use repeated characters, dictionary words, user names, or other predefined sequences.

Under the 'Auto-generated' option, an 'Authentication Token' field displays the value: 1997199520012002. Below this, a note states: 'Make a note of the generated token. Lost authentication tokens cannot be recovered. Tokens are encrypted before being stored. Authentication token are encrypted before we store them.'

17. Clicking on next it goes to the summary of the device then click finish.

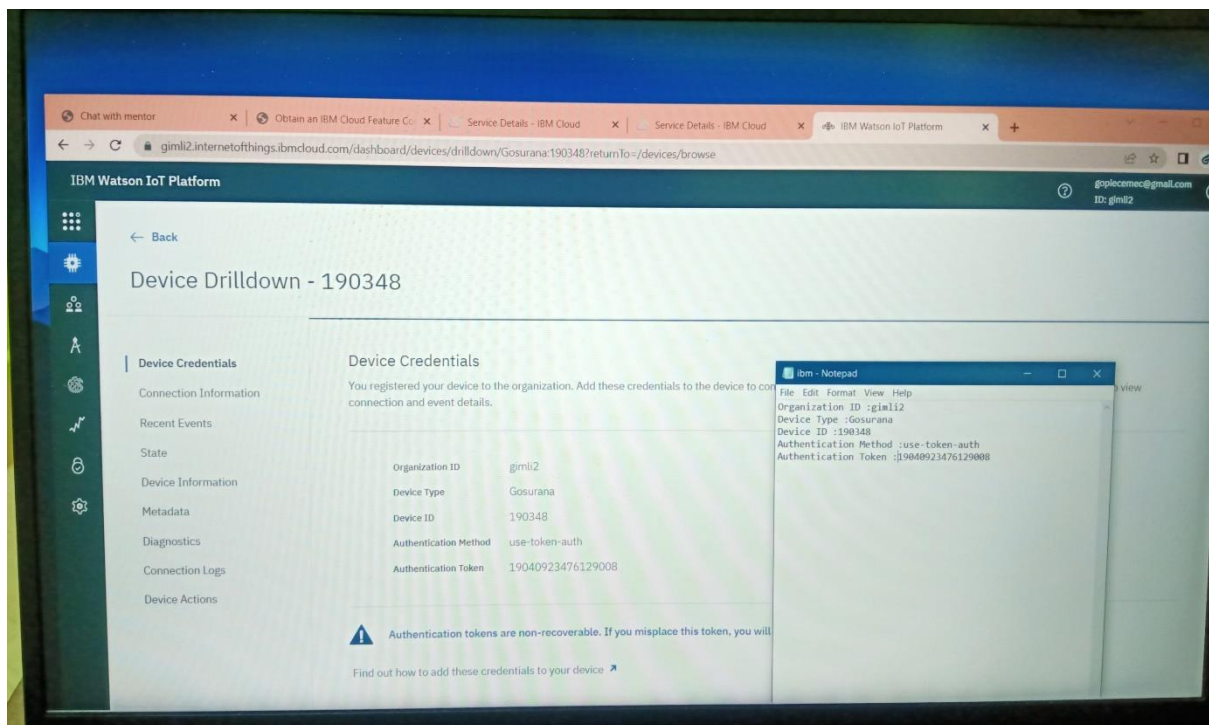


18. The devices credentials will be displayed with all the details.

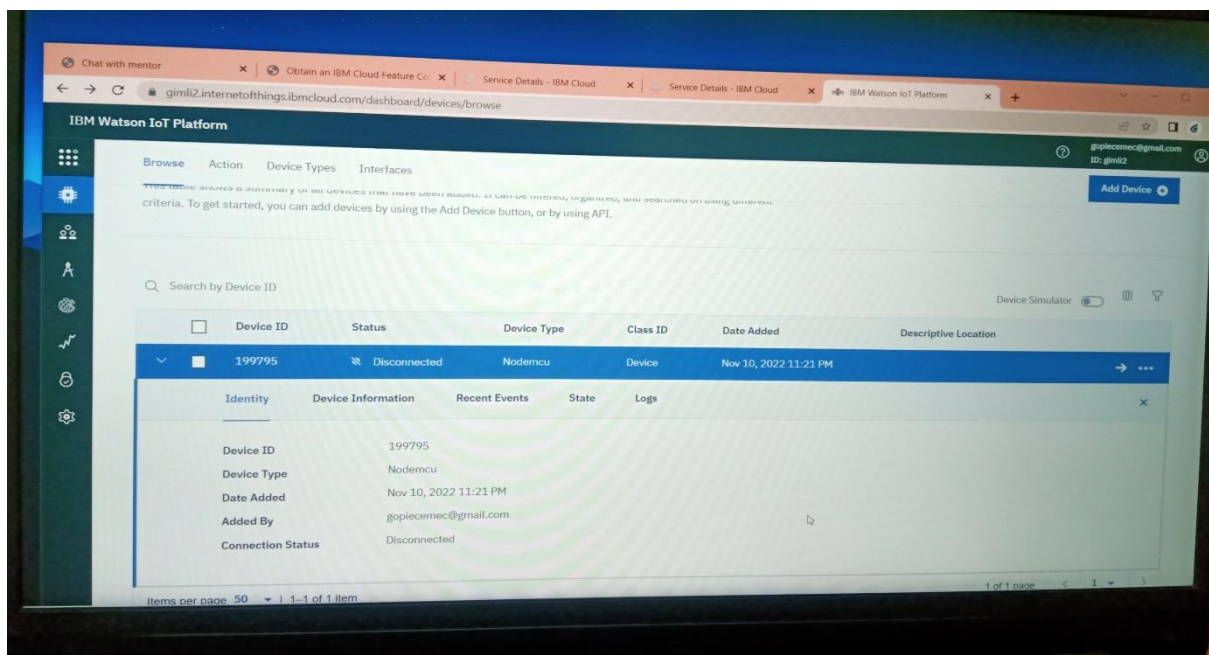




19.Safe the details of the device as the authentication tokens are non-recoverable and if misplaced then we have to create a new one.

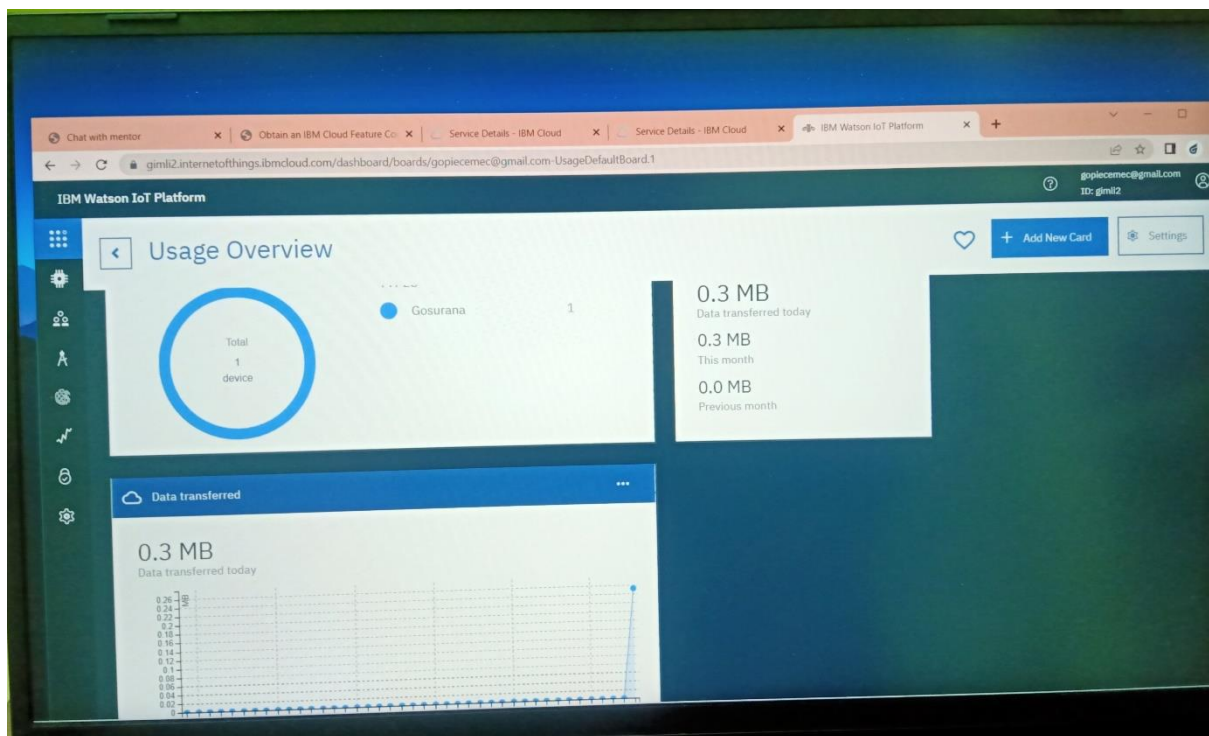
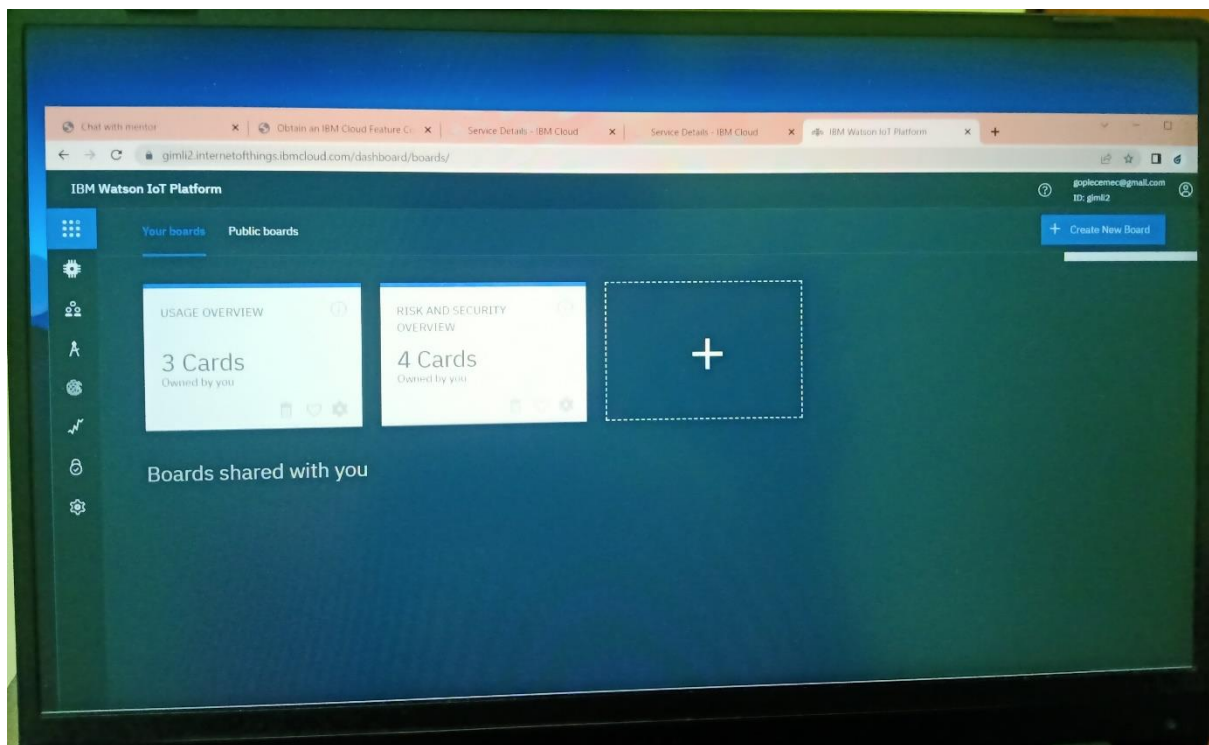


20.Clicking on the devices tab we can now see the added devices. Clicking on it will display the other details.



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

21.The boards will display card for the project.



**Result:**

An IBM Watson cloud for IoT and a device is created.