

CREATE IBM WATSON IOT PLATFORM AND DEVICE CREATE IBM WATSON IOT PLATFORM AND DEVICE

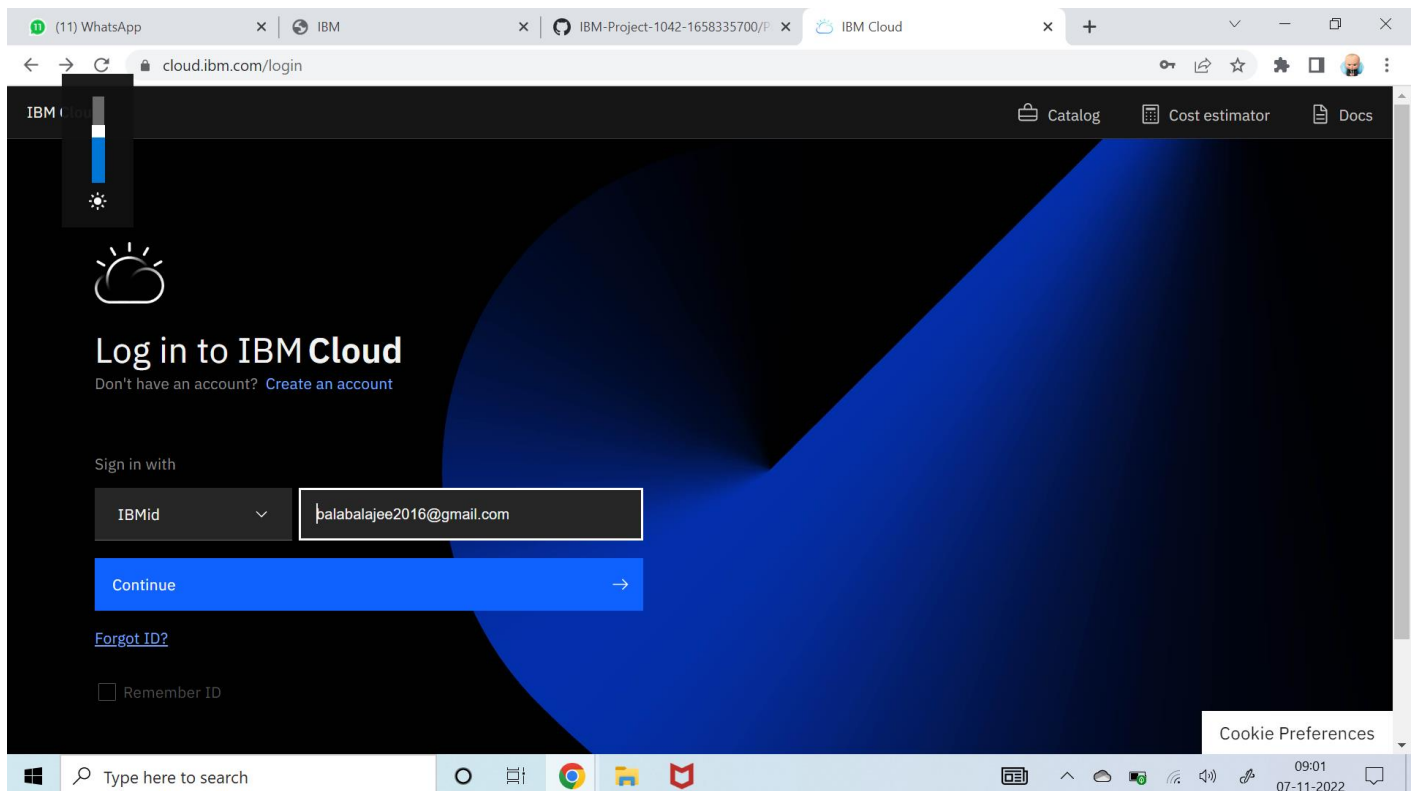
Date	9 November 2022
Team ID	PNT2022TMID27037
Project Name	Smart waste management using IOT in metropolitan cities

AIM:

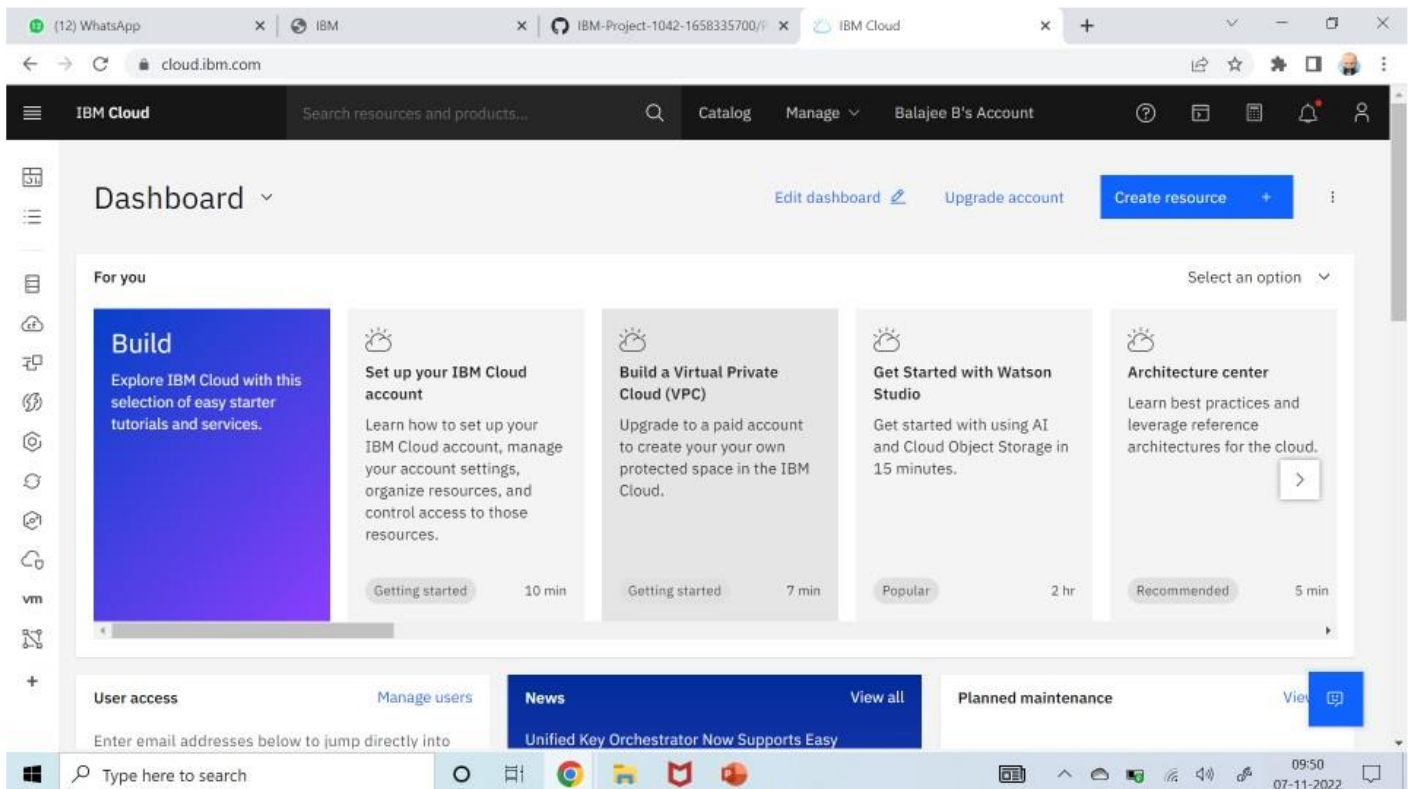
To create the IBM Watson IoT platform and device.

Steps to be followed

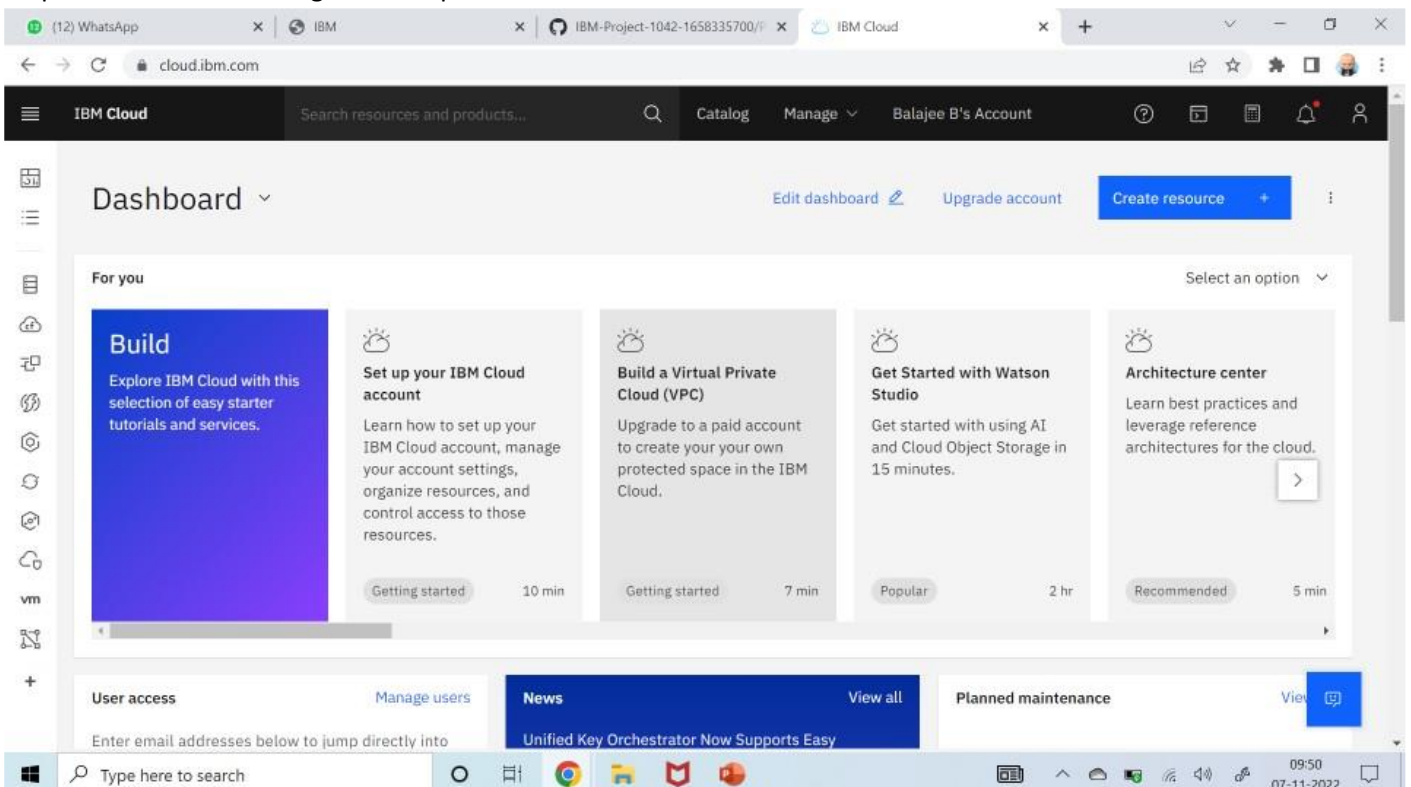
Step 1: Firstly, create an IBM cloud account with IBM id and password.



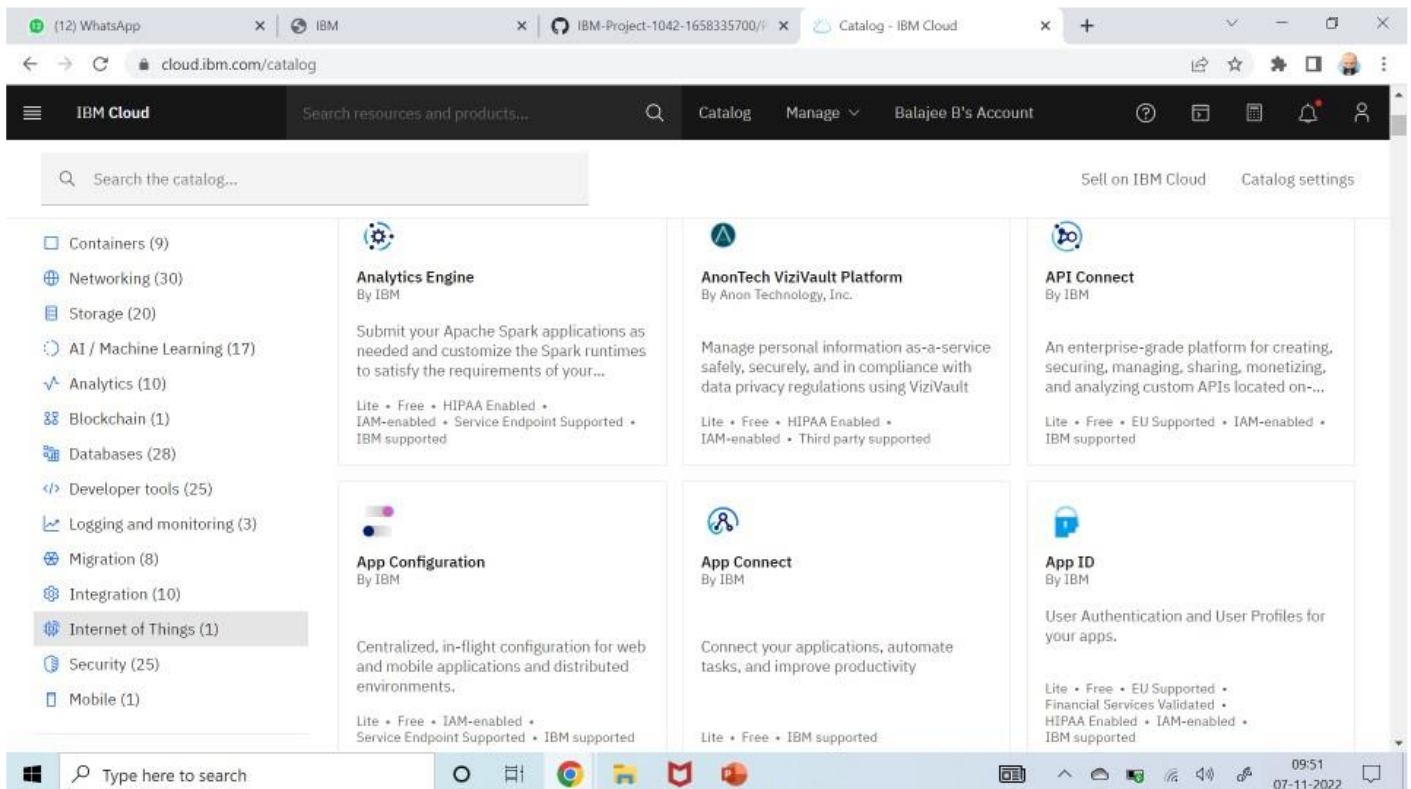
Step 2: Home page of IBM cloud.



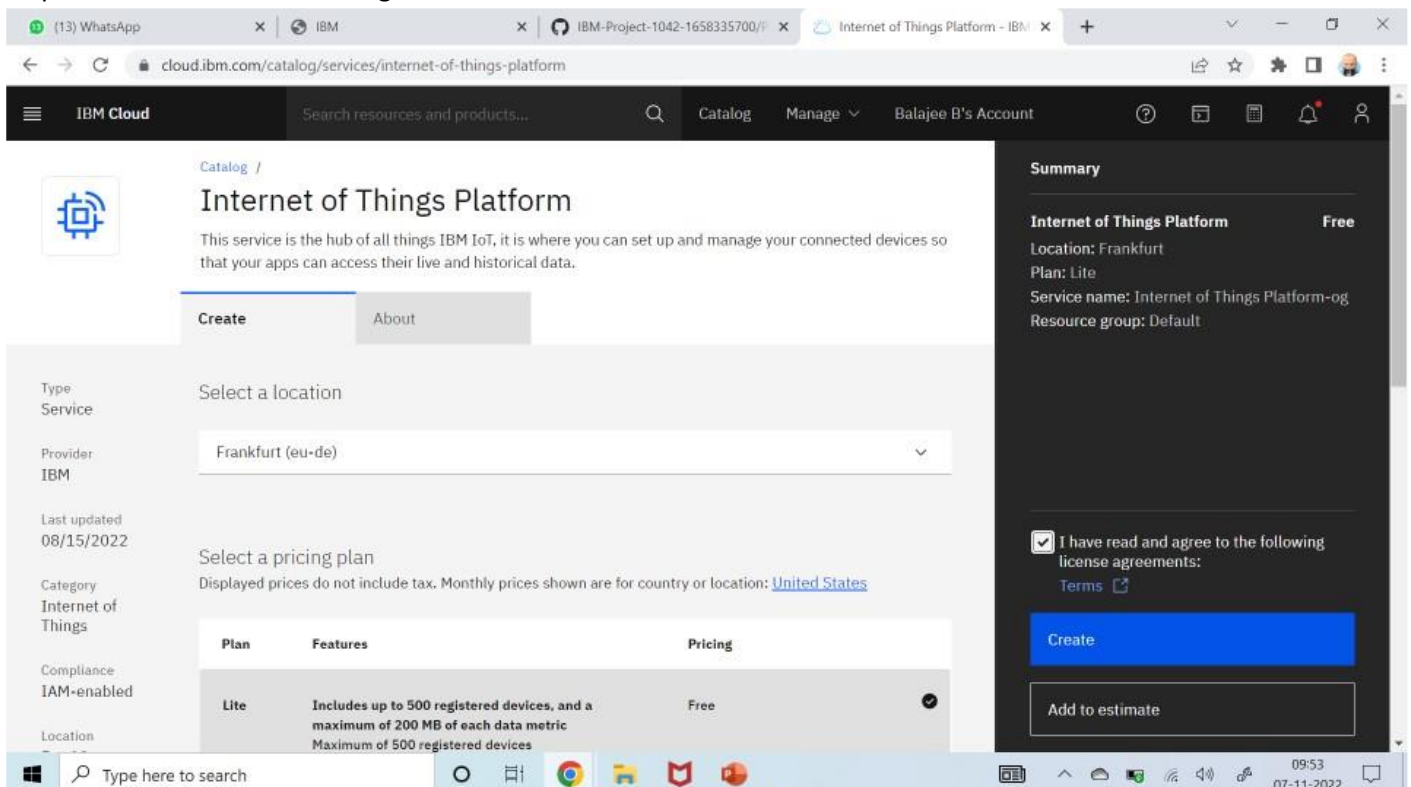
Step 3: Click on the catalog on the top.



Step 4: Click on IoT in the category mentioned.



Step 5: Click on Internet of Things Platform.



Step 6: If already a lite is present delete it else u can't create another.

cloud.ibm.com/catalog/services/internet-of-things-platform

IBM Cloud Search resources and products... Catalog Manage Balajee B's Account

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

Type Service: Select a location

Provider: IBM Frankfurt (eu-de)

Last updated: 08/15/2022

Category: Internet of Things

Compliance: IAM-enabled

Location: 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	Free

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

Create

Add to estimate

09:53 07-11-2022

Step 7: Tick agreements and then click on create.

cloud.ibm.com/catalog/services/internet-of-things-platform

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Create

Add to estimate

09:53 07-11-2022

Step 8: Click on the launch button.

Browser tabs: (12) WhatsApp, IBM, IBM-Project-1042-1658335700, Service Details - IBM Cloud

Address bar: cloud.ibm.com/services/iotf-service/cm%3Av1%3Abluemix%3Apublic%3Aiotf-service%3Aeu-de%3Aa%2F5d1e05e128ac4d40b960b9f2faefe14%3Ac...

IBM Cloud header: Search resources and products... Catalog Manage Balajee B's Account

Resource list / Internet of Things Platform-og Active Add tags Details Actions...

Manage

- Plan
- Connections

Let's get started with IBM Watson IoT Platform

Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

Launch Docs

Ready for the next level?

IBM Watson IoT Platform Journey

☒ Lite ☐ Non-Production

Windows taskbar: Type here to search, Task View, Chrome, File Explorer, Mail, PowerPoint, System tray (09:55 07-11-2022)

Step 9: This is the IBM Watson platform.

Browser tabs: (13) WhatsApp, IBM-Project-40308, IBM, IBM-Project-1042, Service Details - IBM, IBM Watson IoT Platform

Address bar: qqu4hk.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform header: balabalajee2016@gmail.com ID: qqu4hk

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 Filter

Device ID	Status	Device Type	Class ID	Date Added
No devices found.				

Windows taskbar: Type here to search, Task View, Chrome, File Explorer, Mail, PowerPoint, System tray (10:03 07-11-2022)

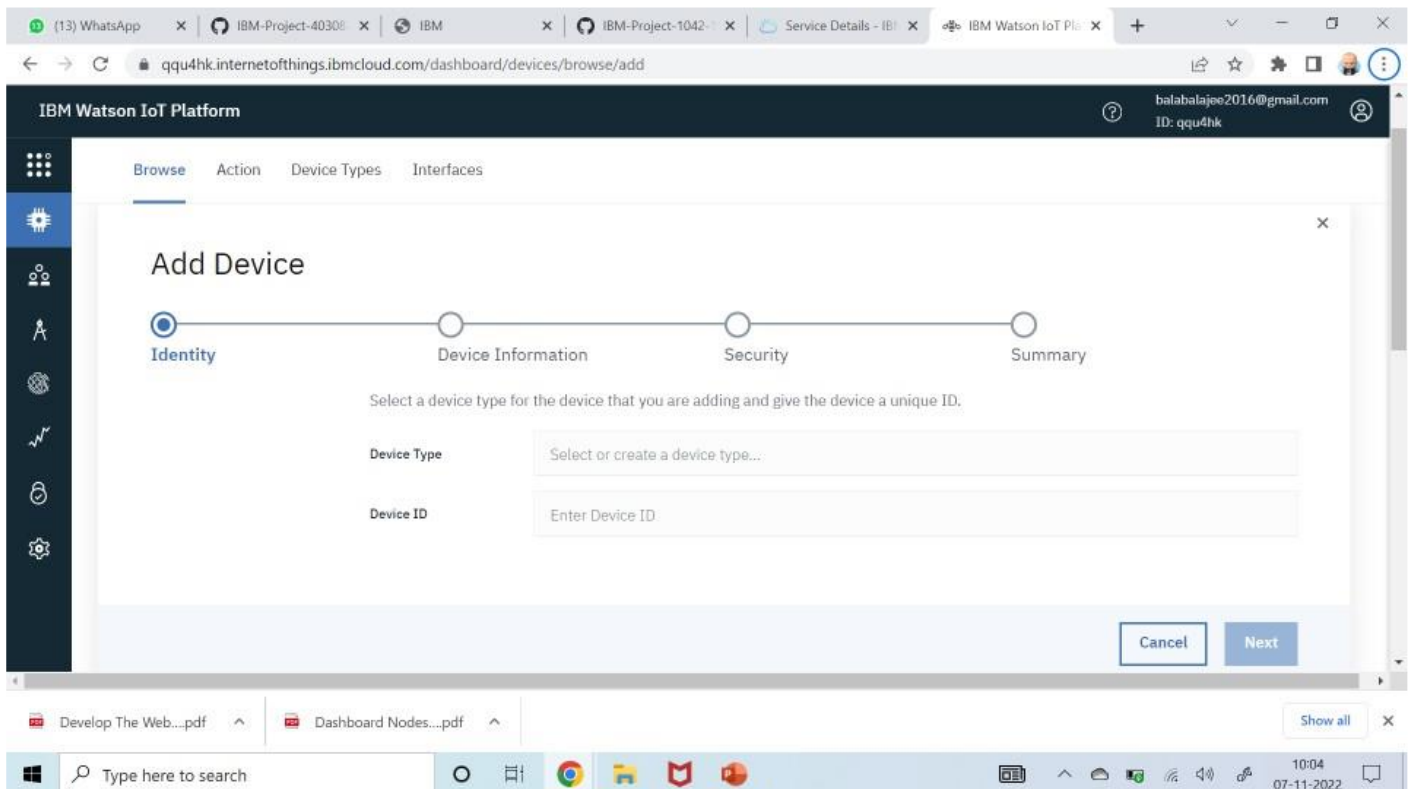
Step 10: Click on Add Device.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A blue 'Add Device' button is in the top right. The main heading is 'BROWSE DEVICES'. Below it are 'All Devices' and 'Diagnose' tabs. A text block explains that the table shows a summary of all devices and can be filtered, organized, and searched. Below this is a search bar labeled 'Search by Device ID' and a 'Device Simulator' toggle. A table with the following headers is shown: Device ID, Status, Device Type, Class ID, and Date Added. The table is currently empty. The bottom of the screen shows a Windows taskbar with the search bar and several open applications.

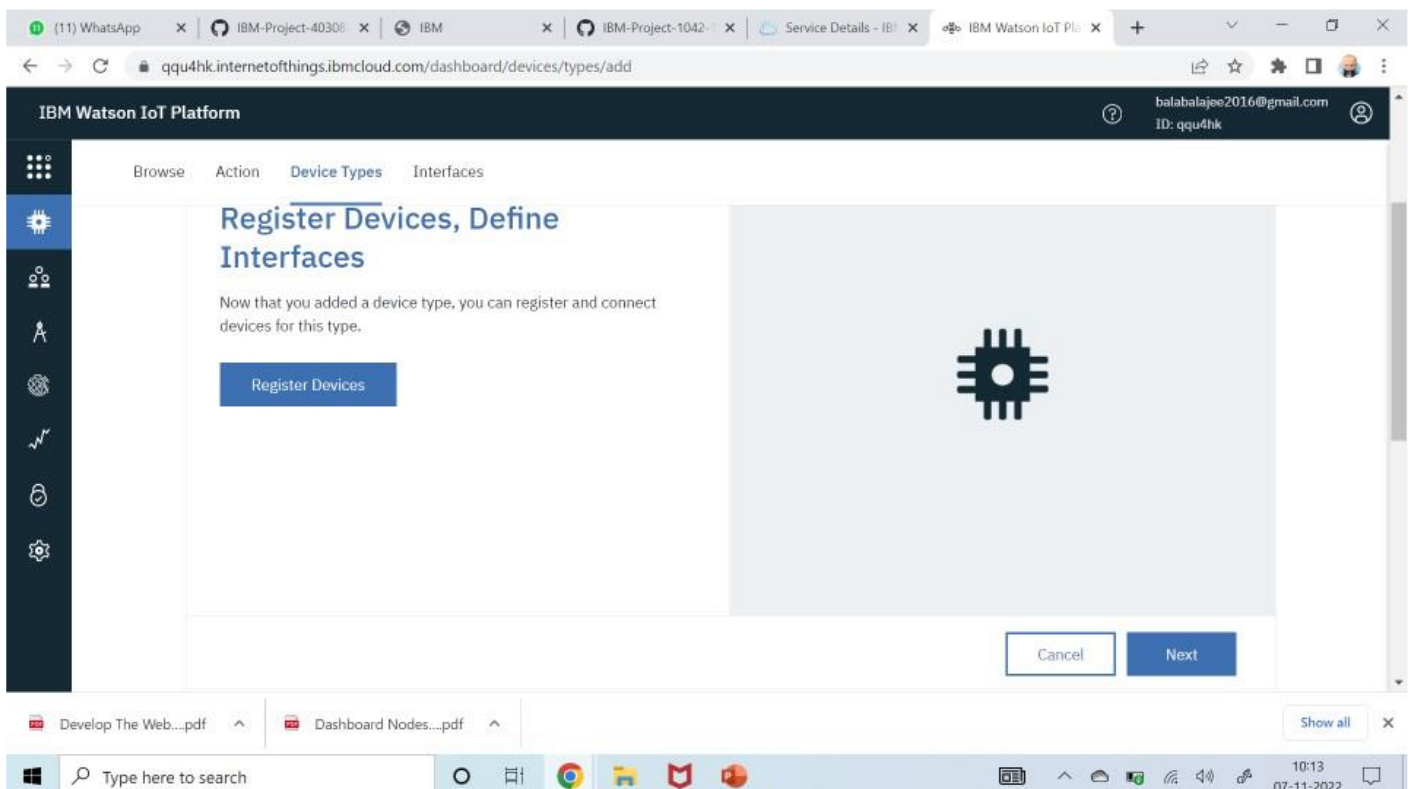
Step 11: Click on Device Type.

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard has four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active. It prompts the user to 'Select a device type for the device that you are adding and give the device a unique ID.' There are two input fields: 'Device Type' with a dropdown menu showing 'Select or create a device type...' and 'Device ID' with a text input field containing 'Enter Device ID'. At the bottom right, there are 'Cancel' and 'Next' buttons. The bottom of the screen shows a Windows taskbar with the search bar and several open applications.

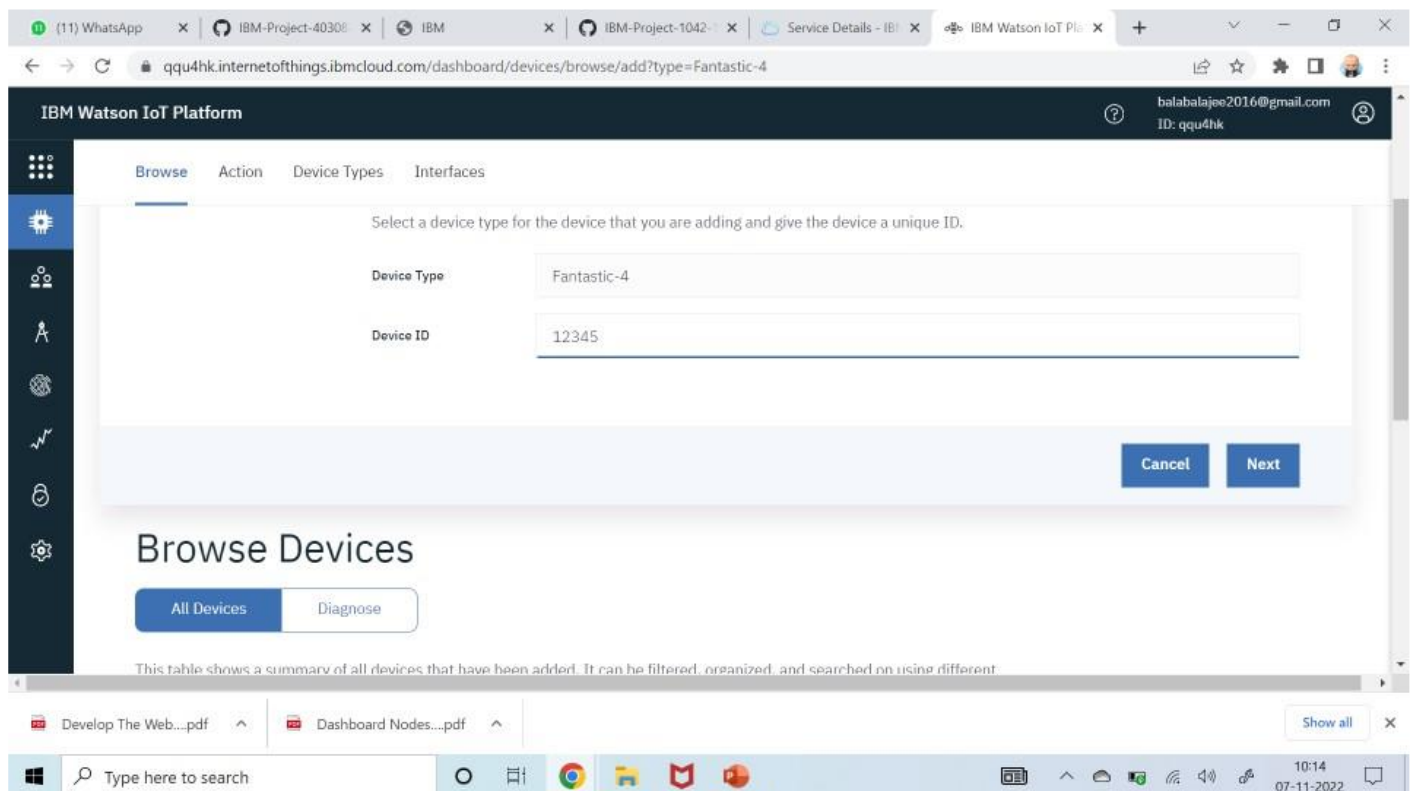
Step 12: Fill the details.



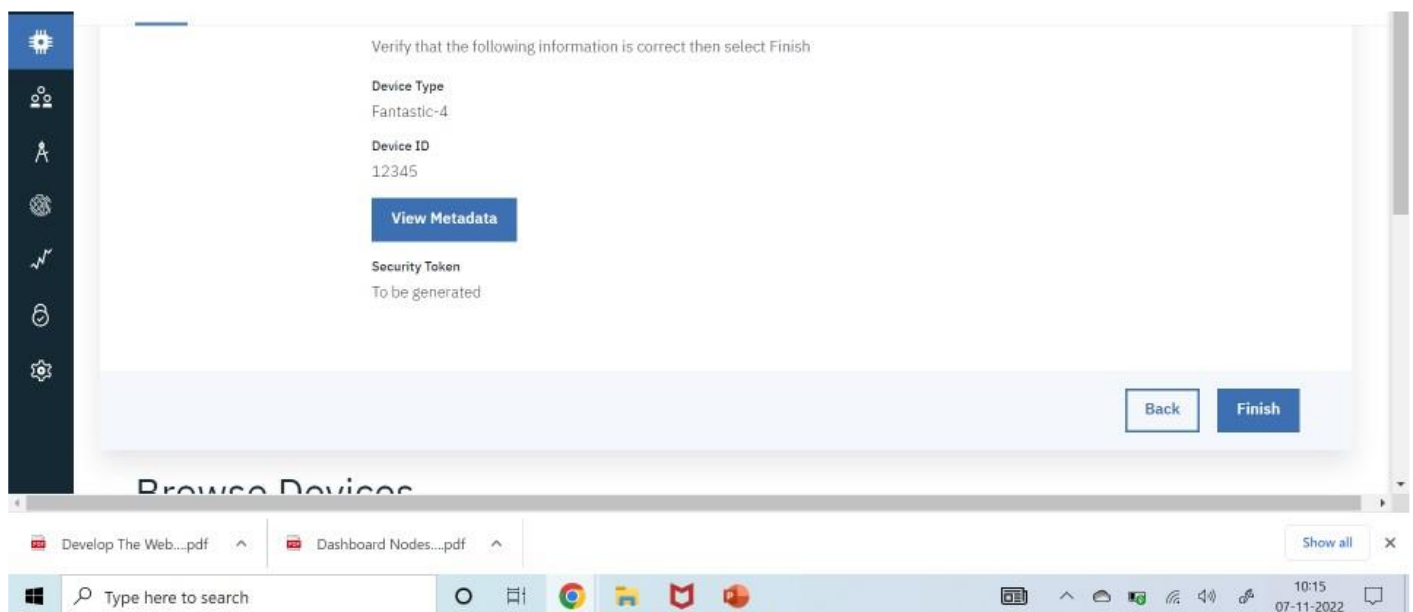
Step 13: Click on Register Devices.



Step 14: Give the device name which you have created and give Device ID.



Step 15: After giving all the data, Click on Finish.



Step 16: Go to devices then click on devices and check the recent events whether the code is running or not.

IBM Watson IoT Platform

qqu4hk.internetofthings.ibmcloud.com/dashboard/devices/browse

balabalajee2016@gmail.com
ID: qqu4hk

12345 Disconnected Fantastic-4 Device Nov 7, 2022 10:15 AM

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
event_1	{"type":"Buffer","data":{}}	json	a few seconds ago
event_1	{"#IBM Watson IOT Platform*":"#pip install wiot..."}	json	5 minutes ago
event_1	{"randomNumber":24}	json	5 minutes ago

1 Simulation running

ibm.csv Show all

Step 17: Go to Board and click on + Create New Board, fill the details and create a board.

IBM Watson IoT Platform

qqu4hk.internetofthings.ibmcloud.com/dashboard/boards

balabalajee2016@gmail.com
ID: qqu4hk

Your boards Public boards **+ Create New Board**

AABG No cards Owned by you

RISK AND SECURITY OVERVIEW 4 Cards Owned by you

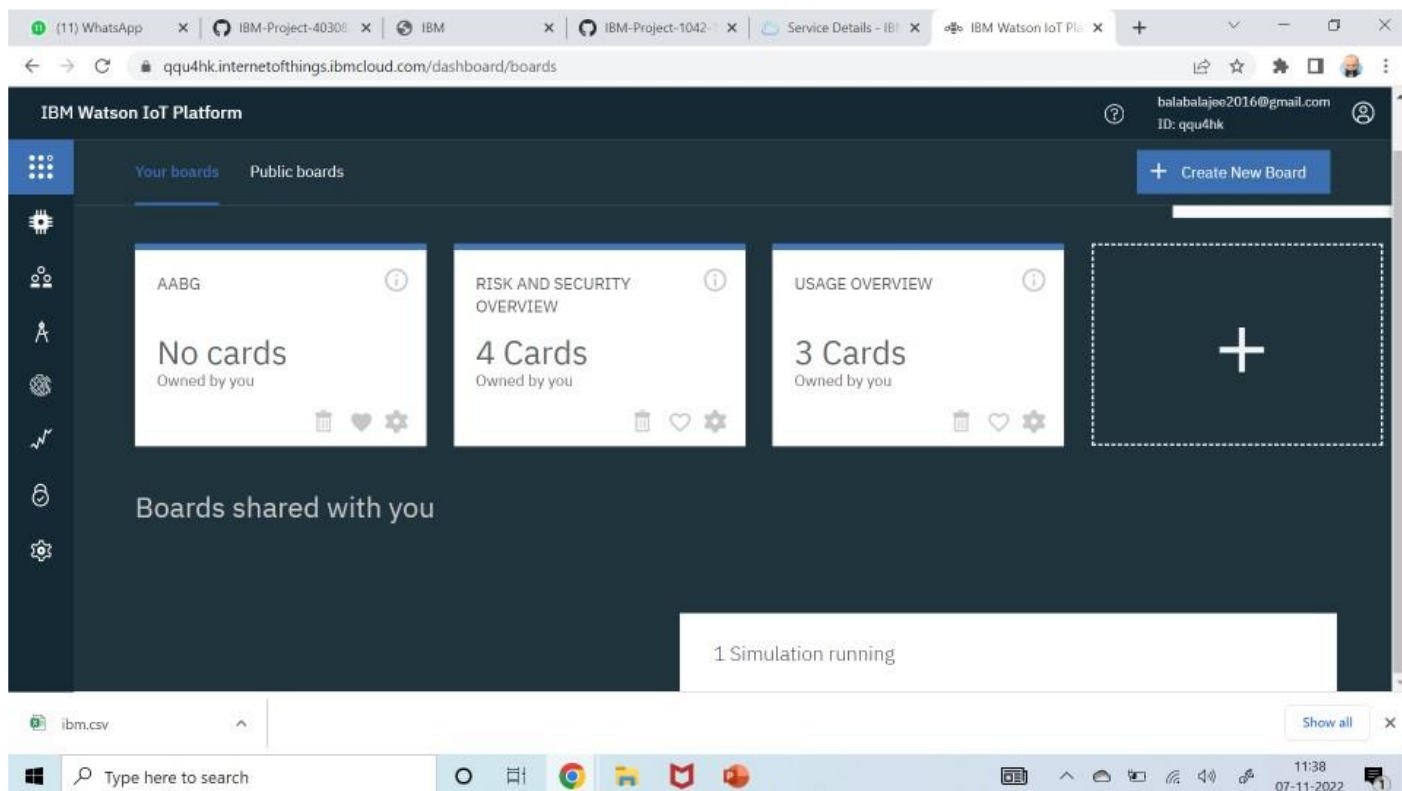
USAGE OVERVIEW 3 Cards Owned by you

Boards shared with you

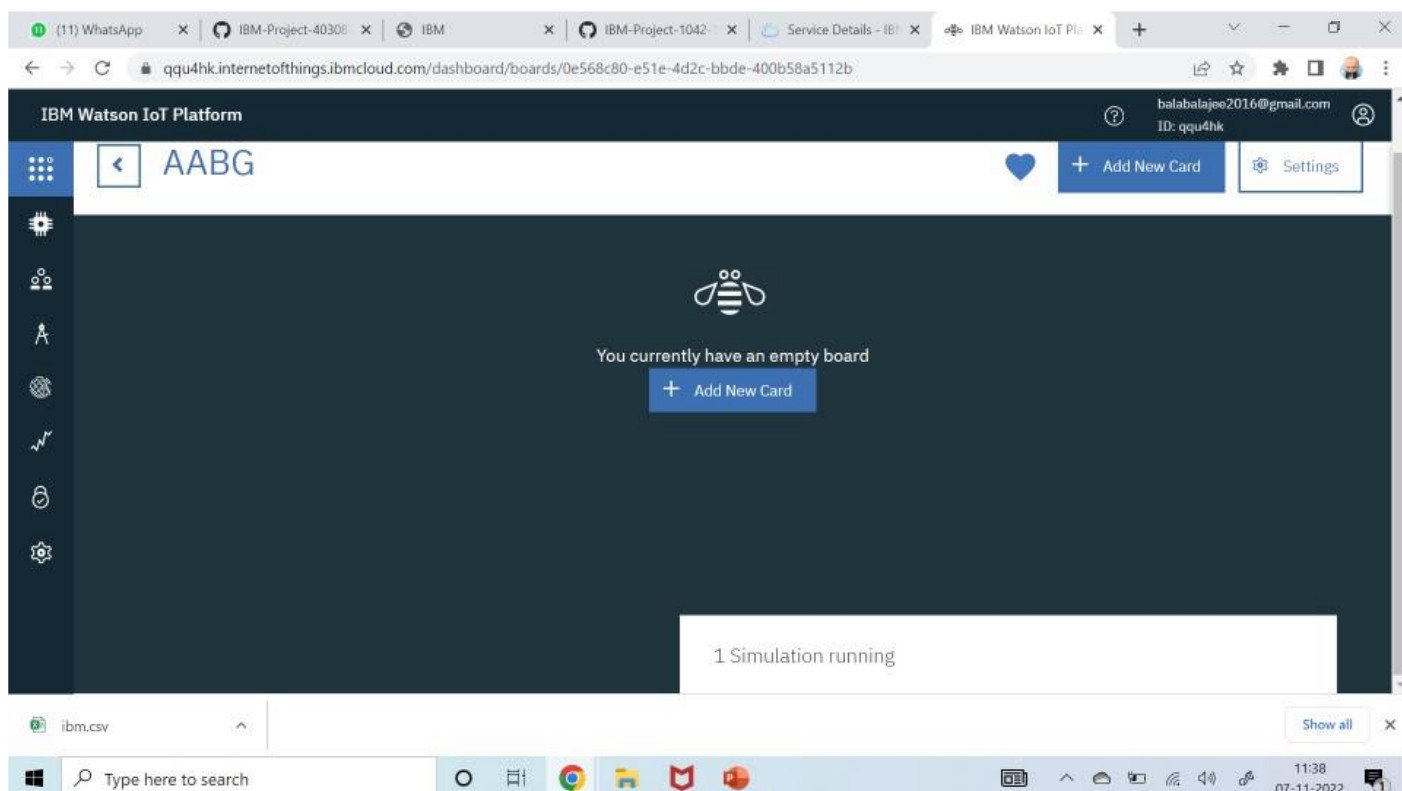
1 Simulation running

ibm.csv Show all

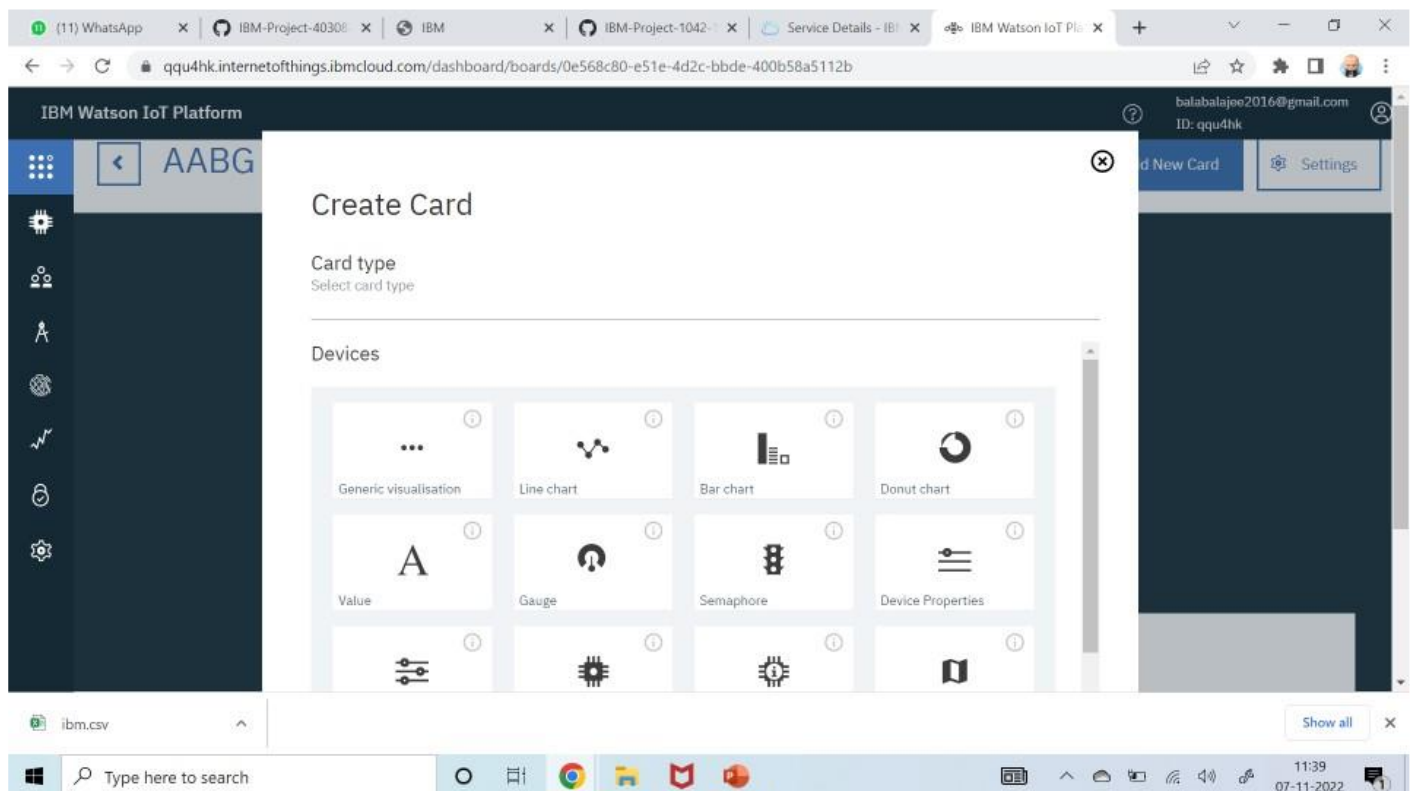
Step 18: Click on the board which is created.



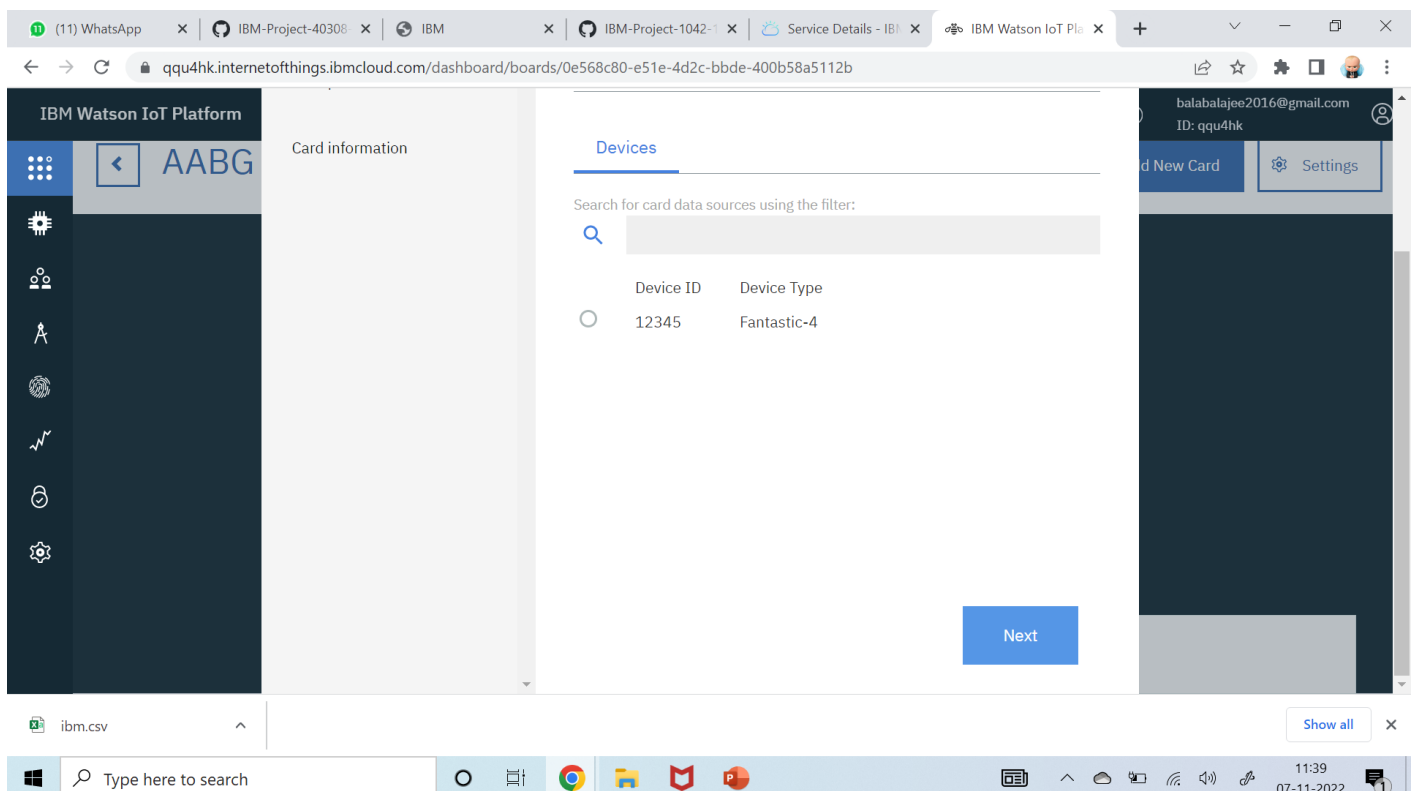
Step 19: Go Add New Card.



Step 20: Choose the Card Type.



Step 21: Choose the device.



Step 22: Fill the details to get Temperature graph.

IBM Watson IoT Platform

Card information

Devices

Search for card data sources using the filter:

Device ID Device Type

12345 Fantastic-4

Next

ibm.csv

Show all

Type here to search

11:39 07-11-2022

Step 23: Repeat the same process again to get the Humidity graph.

IBM Watson IoT Platform

AABG

Line chart

1 Simulation running

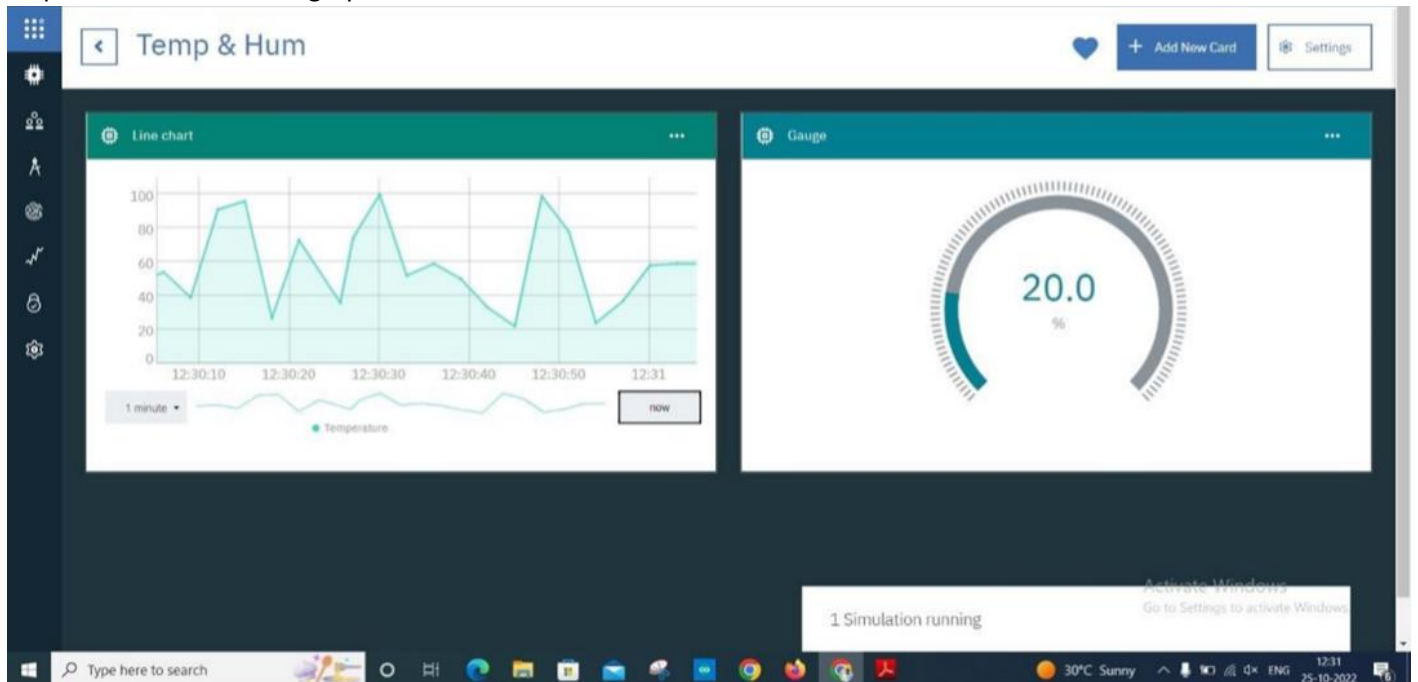
ibm.csv

Show all

Type here to search

11:48 07-11-2022

Step 24: Here is the Final graph.



Result:

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