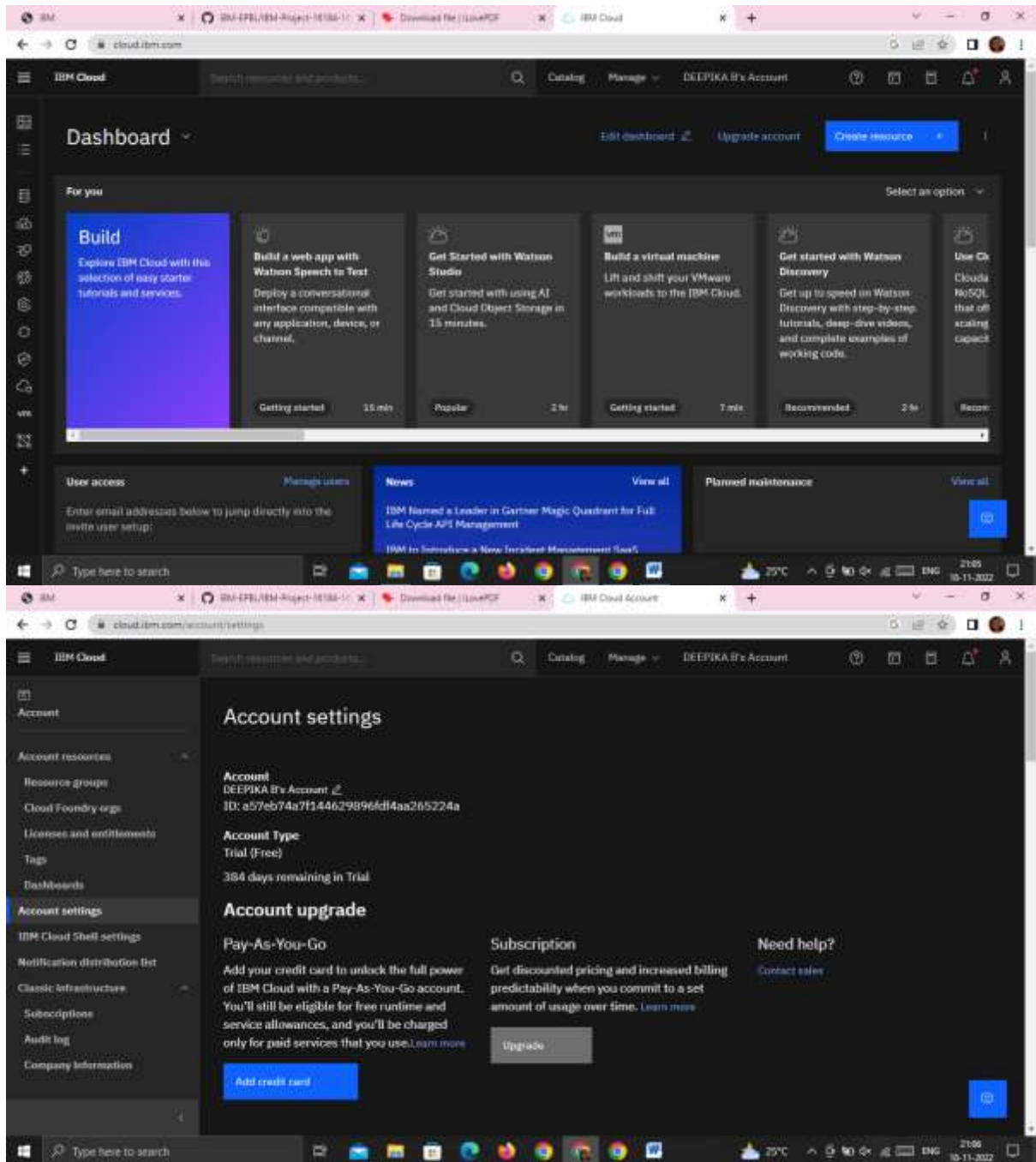
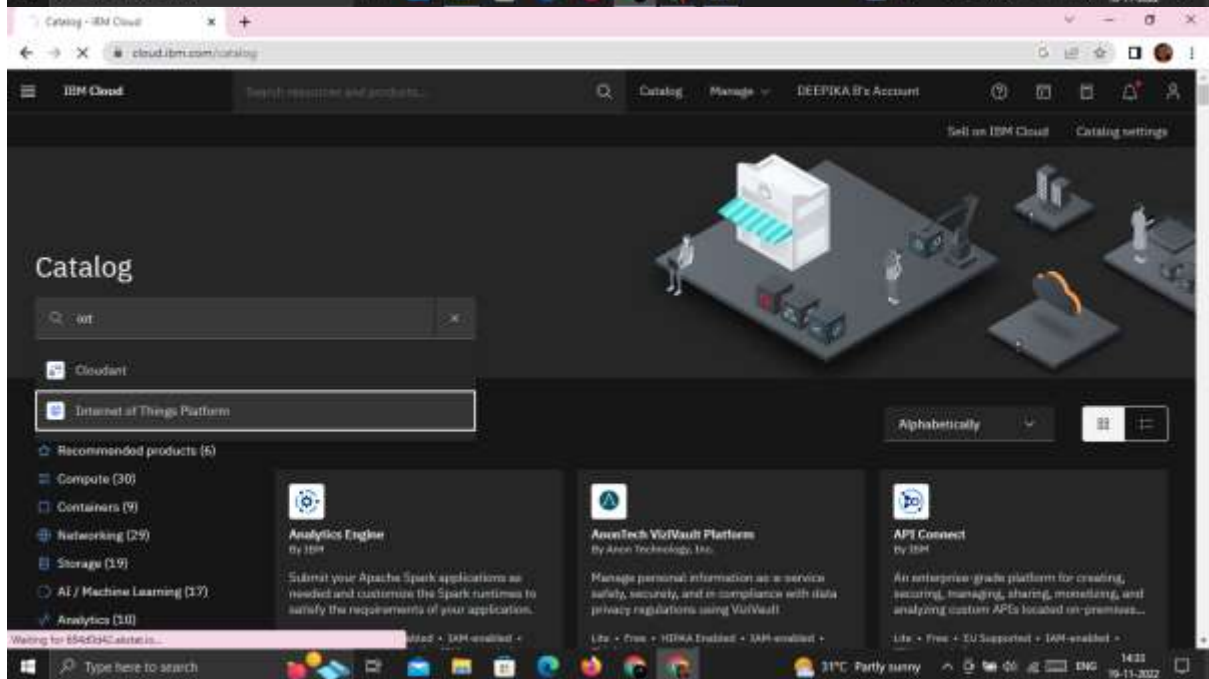
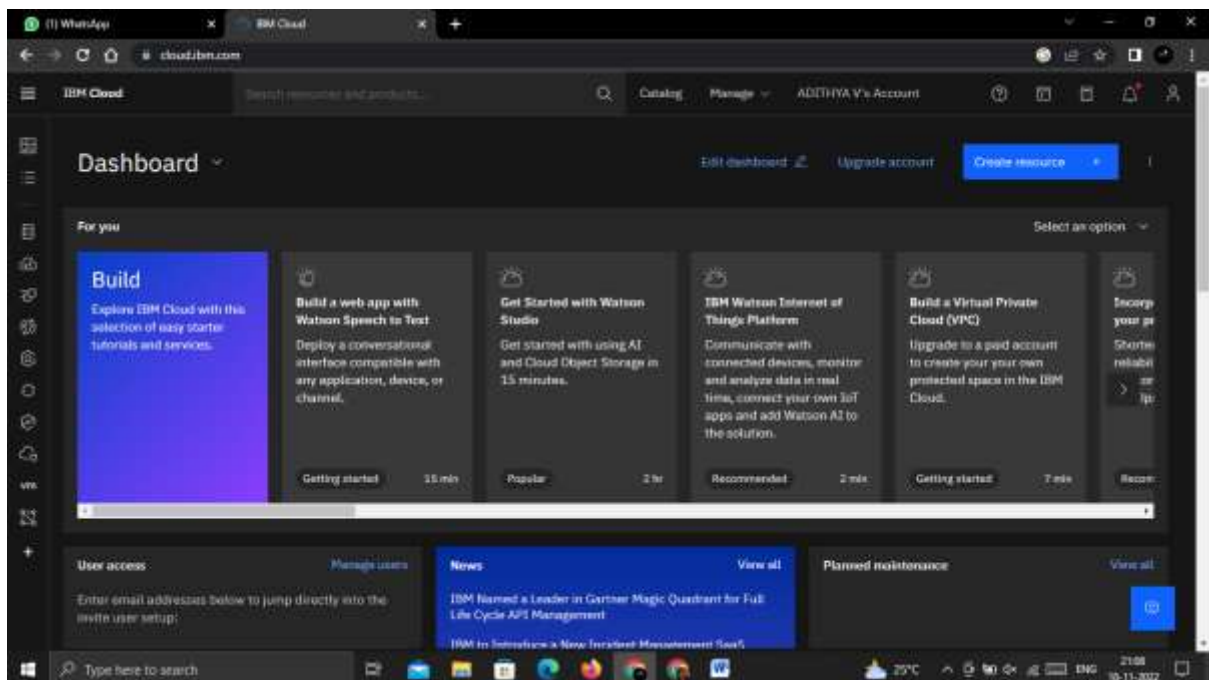


# Project screenshots





Internet of Things Platform - (81) x

cloud.ibm.com/catalog/services/internet-of-things-platform?os\_account=a57ab7fa7f1446296964646a265334a

IBM Cloud

Search resources and products...

Catalog

Manage

DEEPIKA 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

Provider IBM

Last updated 08/15/2022

Category Internet of Things

Compliance IAM-enabled

Related links Docs Terms

Select a location

Select a pricing plan

Plan	Features	Pricing

Summary

Internet of Things Platform

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

Create

Add to estimate

Type here to search

31°C Partly sunny

14:31 19-11-2022

Service Details - IBM Cloud

IBM Watson IoT Platform

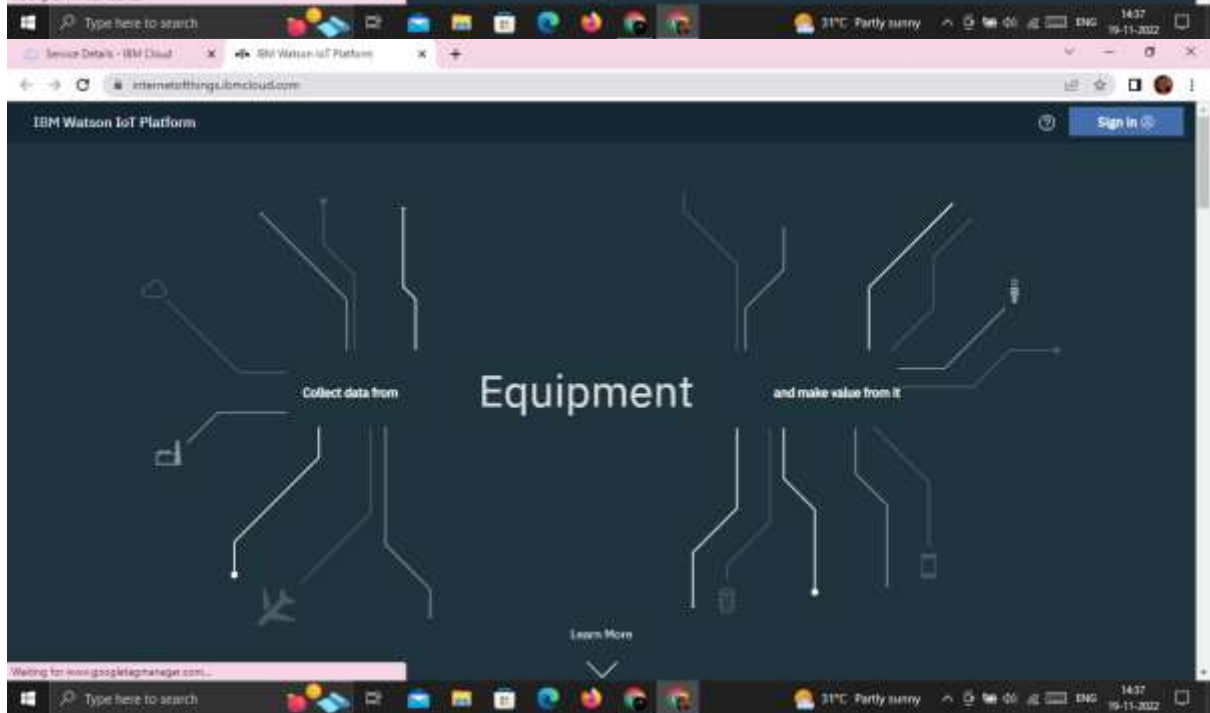
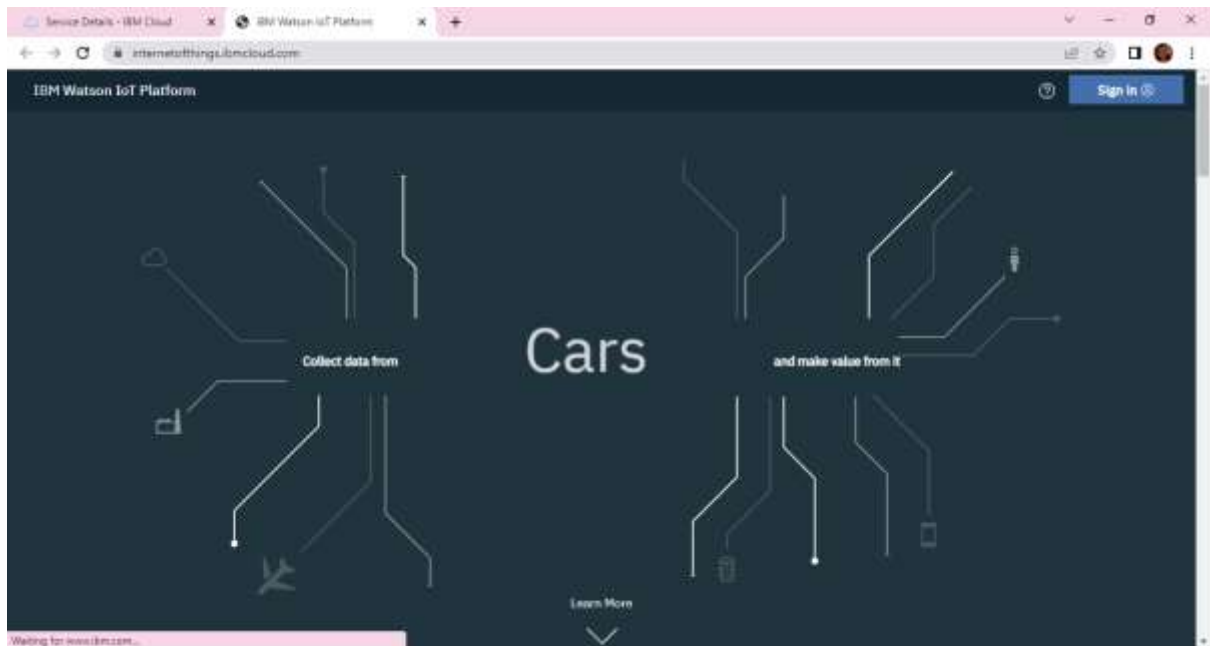
internetofthings.ibmcloud.com

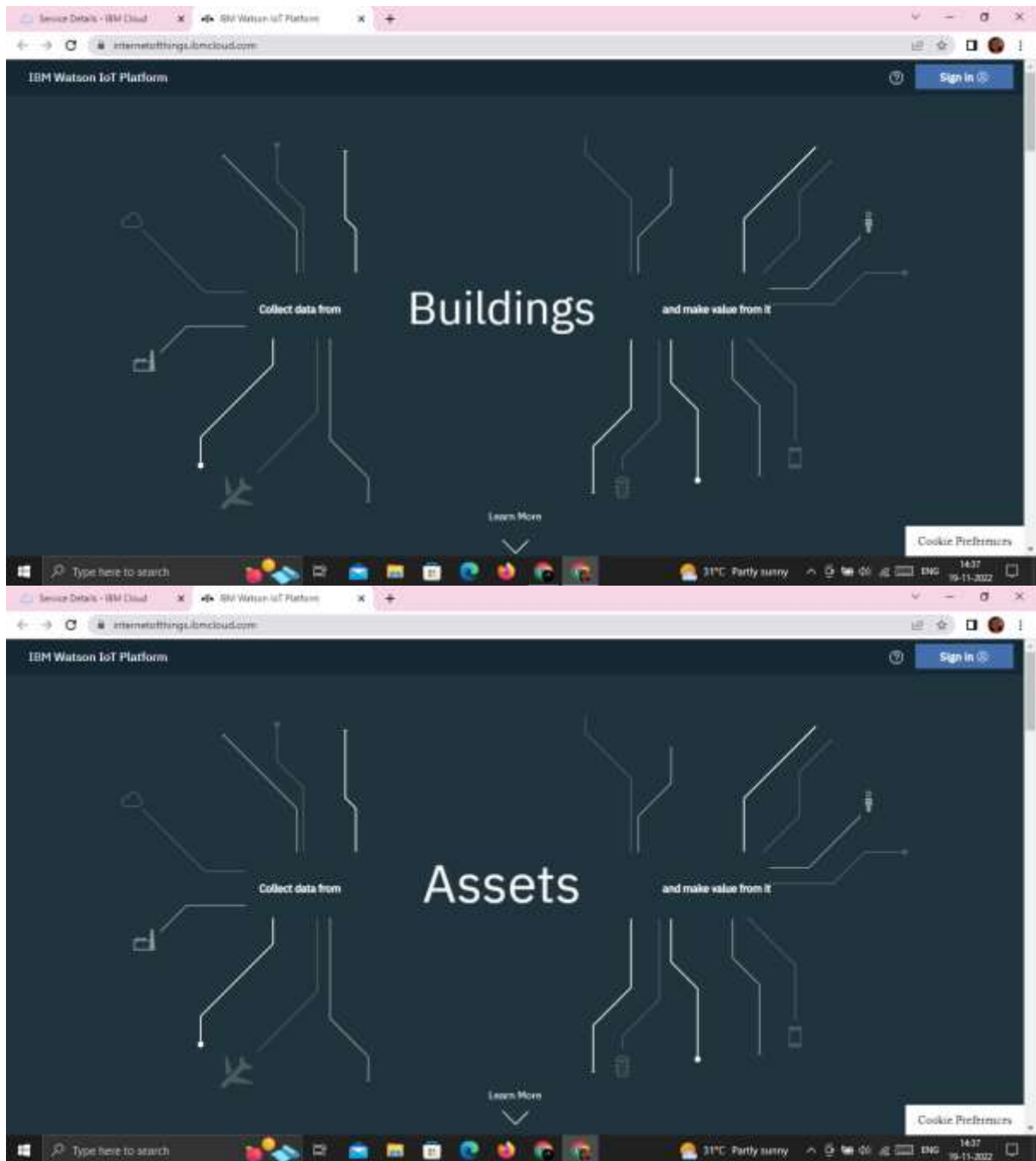
Waiting for www.ibm.com...

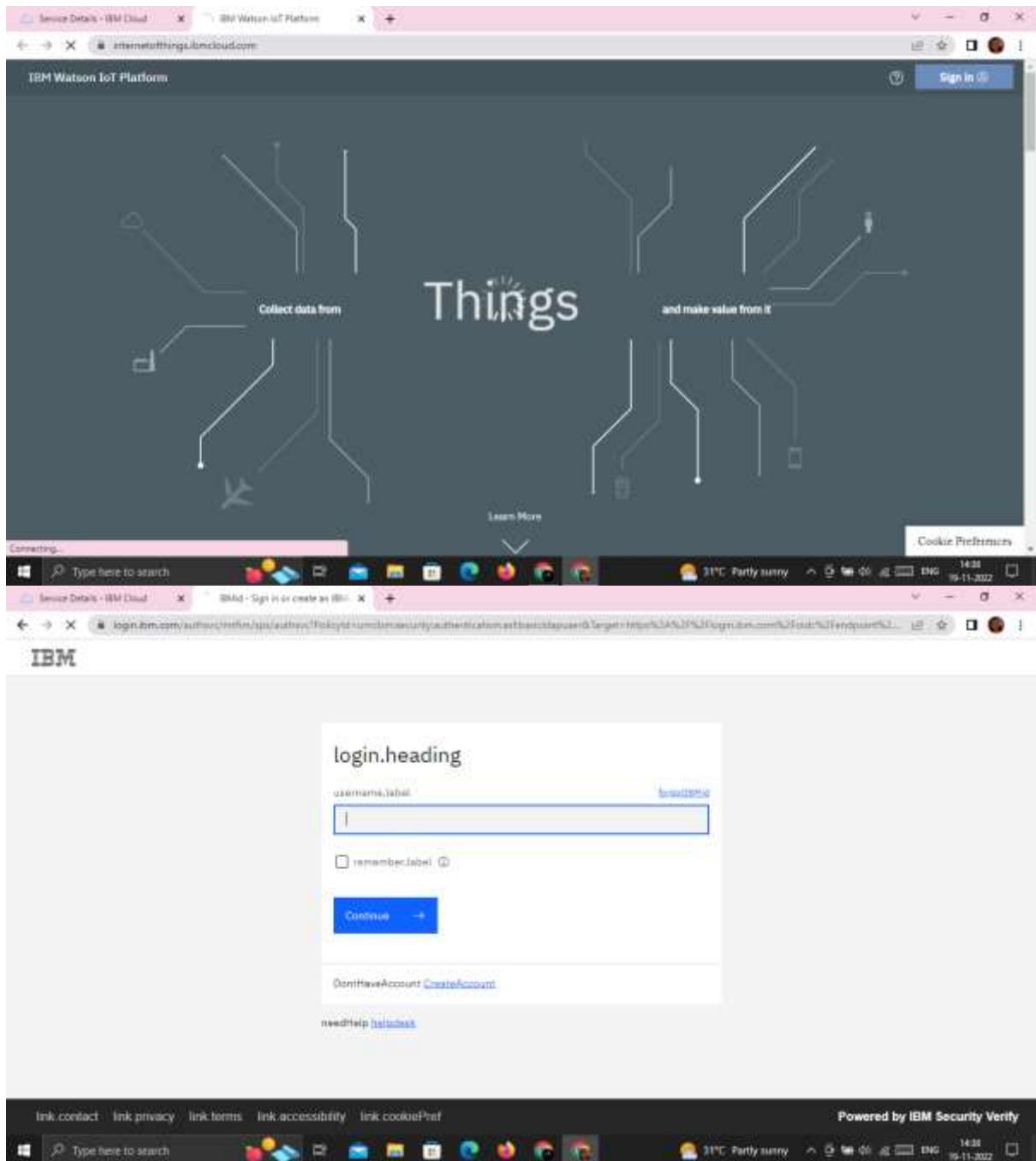
Type here to search

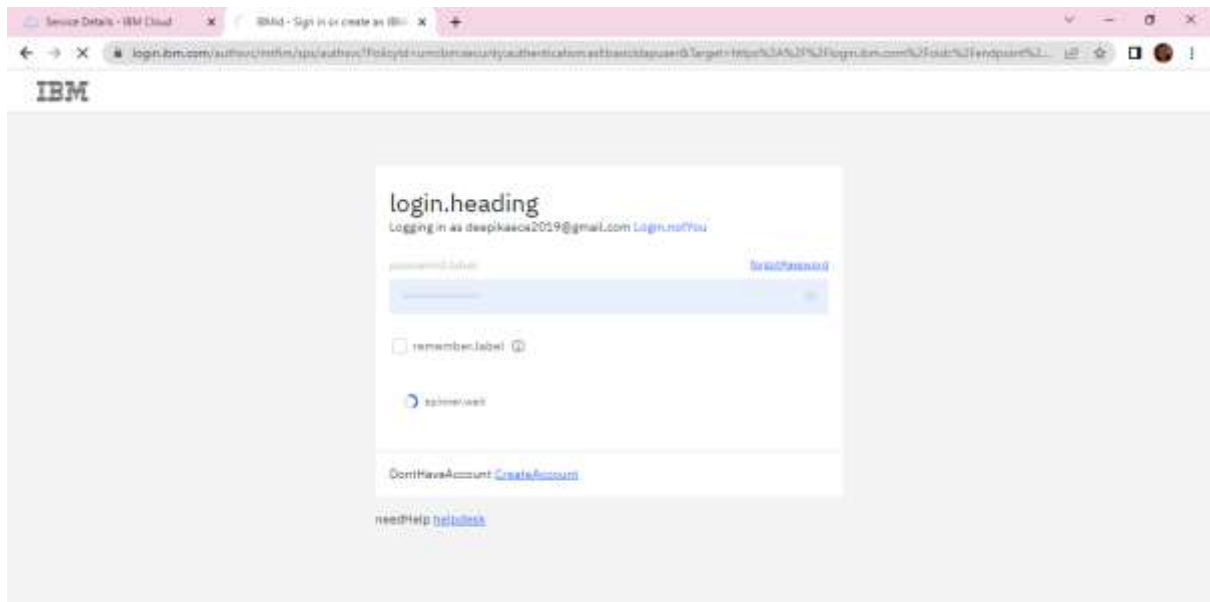
31°C Partly sunny

14:37 19-11-2022

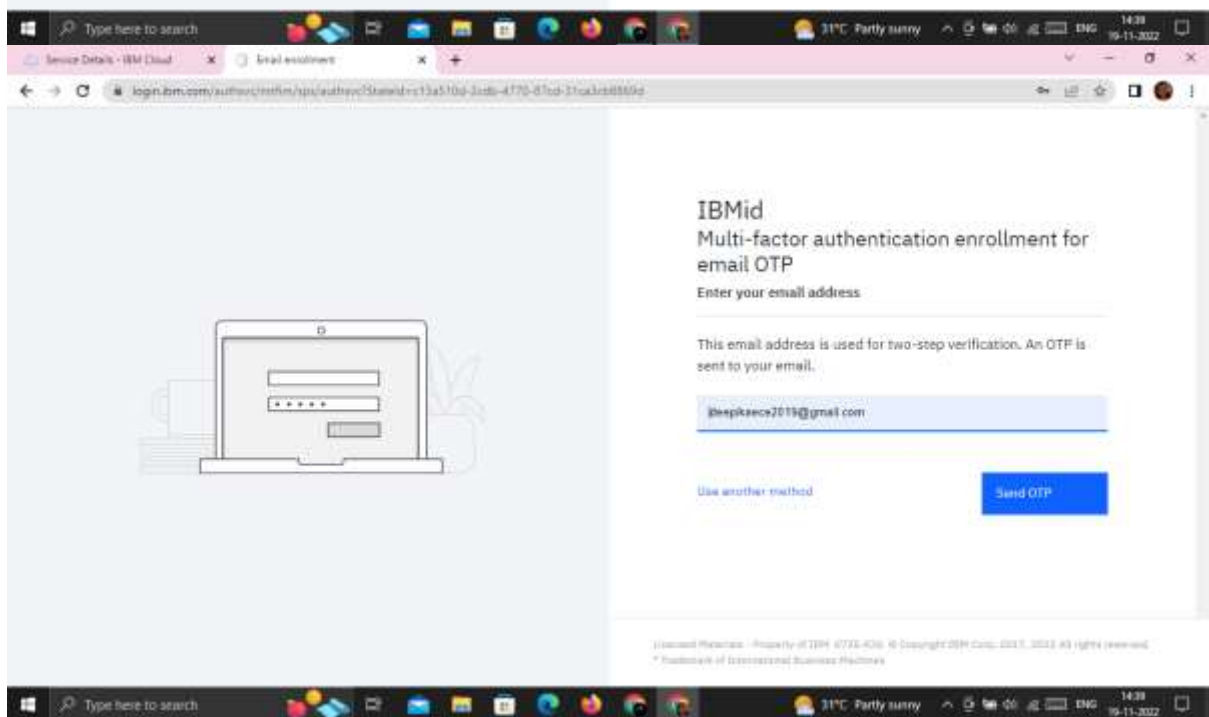
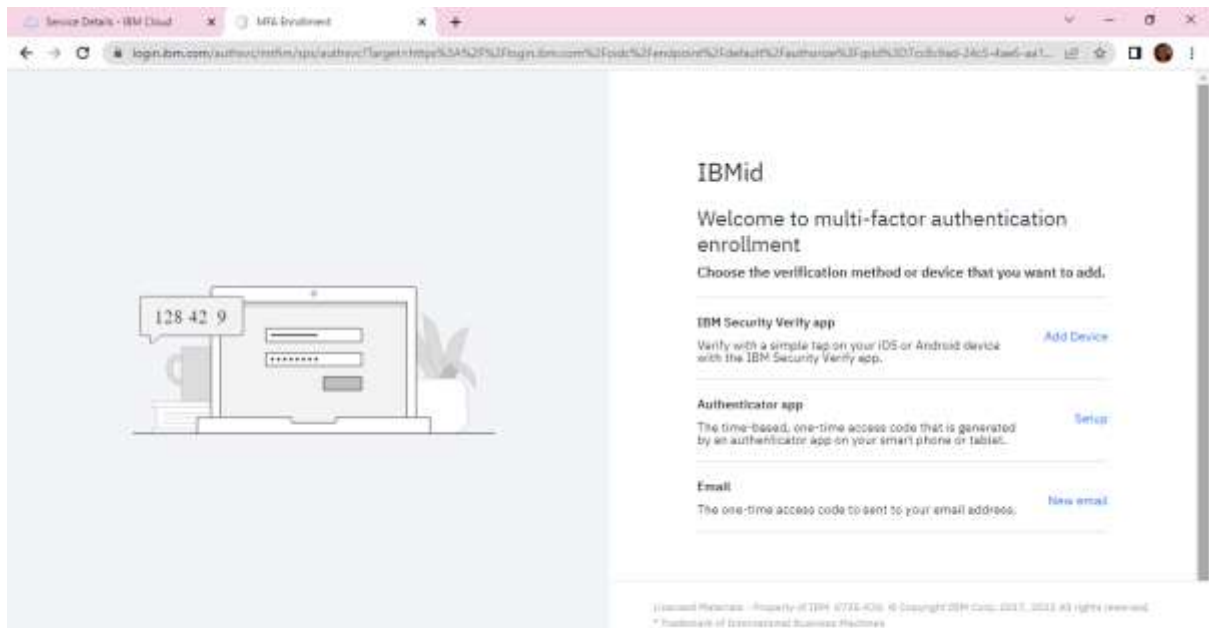




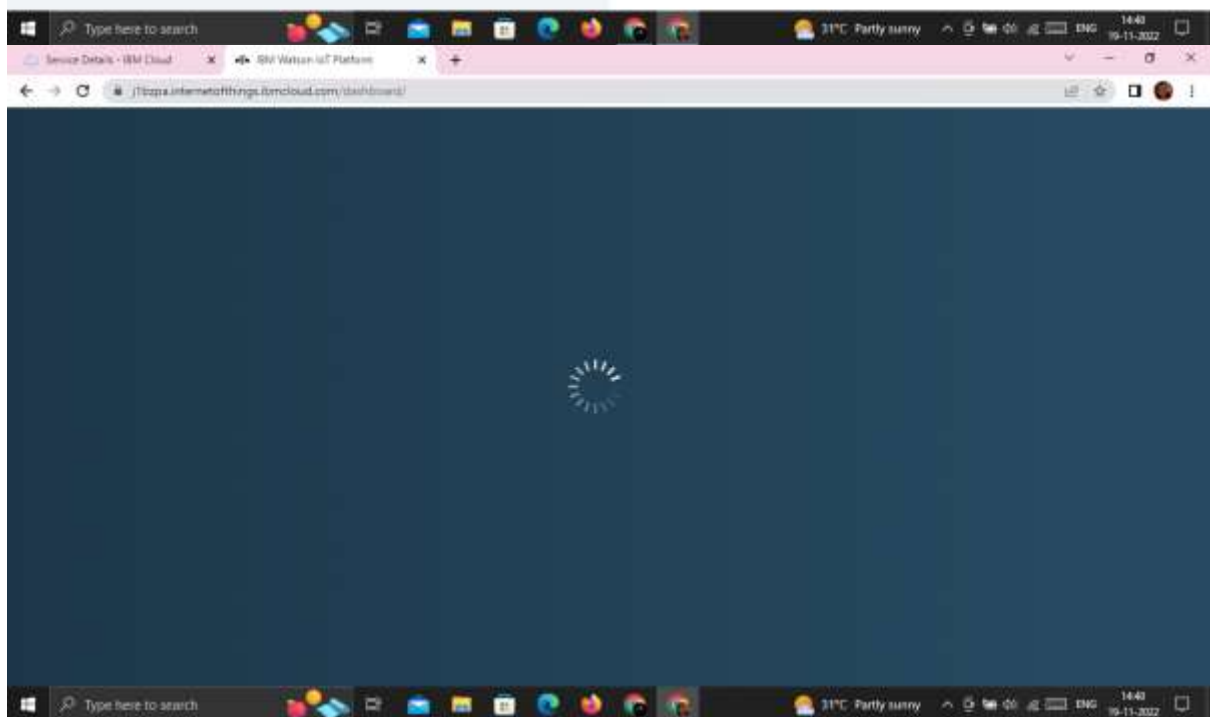
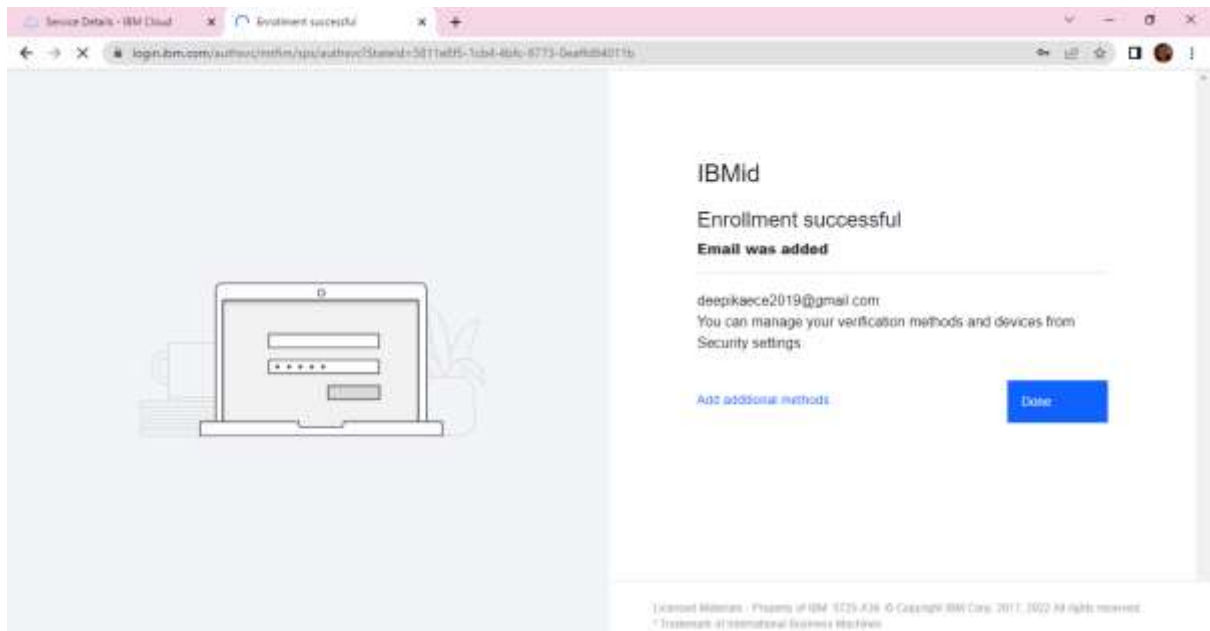












Service Details - IBM Cloud x IBM Watson IoT Platform x

https://dashboard.internetofthings.ibmcloud.com/dashboard/devices/browse

### IBM Watson IoT Platform

deepak@2019@gmail.com ID: j1kpw

Service Status  
Status  
Usage  
Security  
Settings  
Sign Out

## Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organised, and searched in 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

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
--------------------------	-----------	--------	-------------	----------	------------

You don't have any devices.

Service Details - IBM Cloud x IBM Watson IoT Platform x

https://dashboard.internetofthings.ibmcloud.com/dashboard/devices/browse/add

### IBM Watson IoT Platform

deepak@2019@gmail.com ID: j1kpw

Boards  
Devices  
Members  
Apps  
Access Management  
Usage  
Security  
Settings

## Add Device

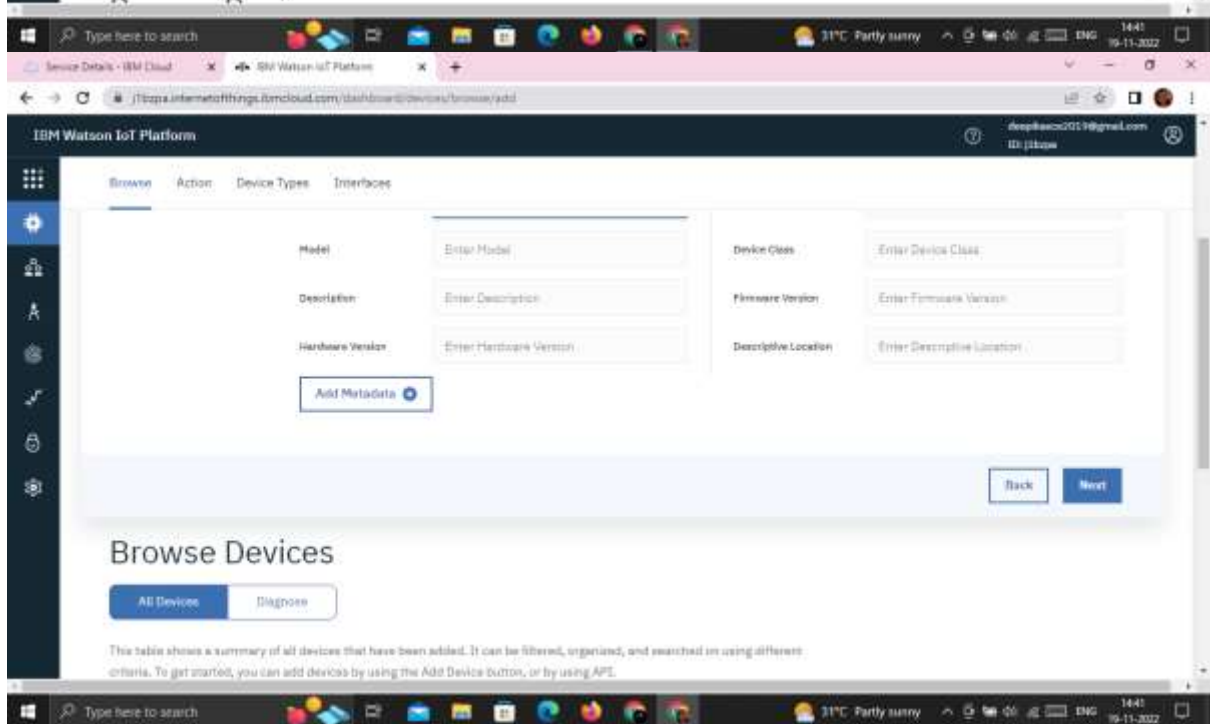
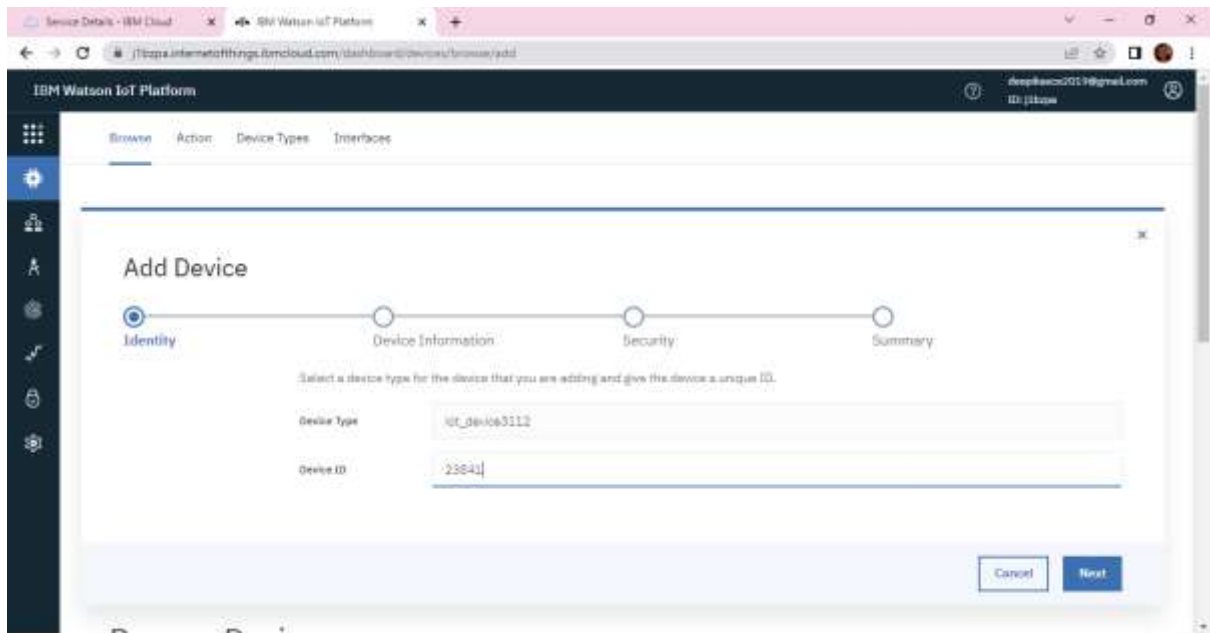
Device Information Security Summary

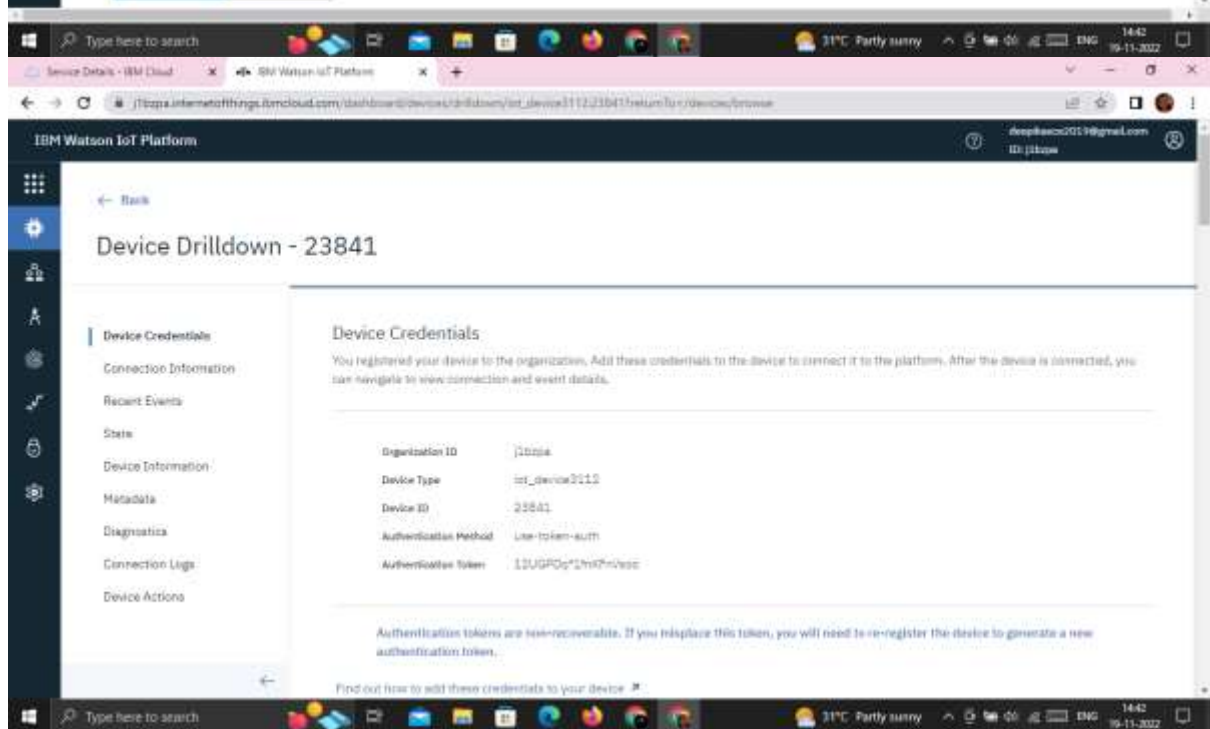
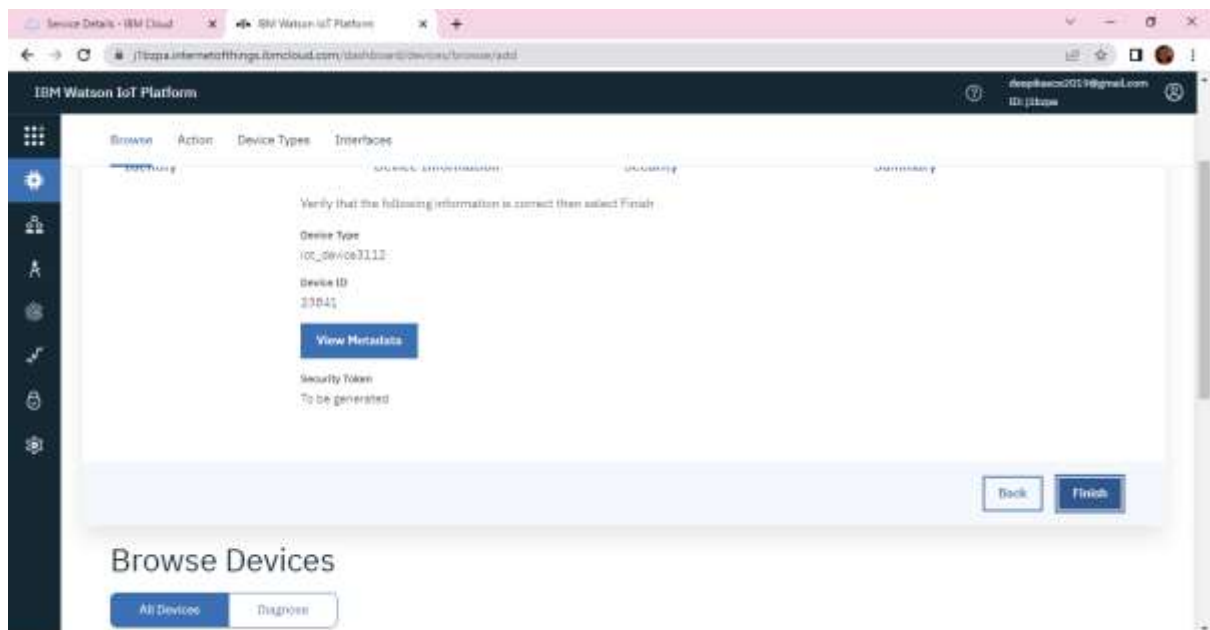
Select a device type for the device that you are adding and give the device a unique ID.

Device Type Select or create a device type...

Device ID Enter Device ID

Cancel Next





Service Details - IBM Cloud x IBM Watson IoT Platform x

https://dashboard.internetofthings.ibmcloud.com/dashboard/devices/browse

### IBM Watson IoT Platform

Browse Action Device Types Interfaces

## Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
23841	Disconnected	iot_device3112

Items per page: 50 | 1-1 of 1 item

#### Simulations

Internet Simulation

You can use the simulated event data to learn about, test, and demonstrate fully functioning Watson IoT Platform features. You can simulate a device and its data or simulate only data for a device that is already registered.

To create a device simulation:

1. Select a device type.
2. Configure the event and payload.
3. Add devices.

Create simulation

Service Details - IBM Cloud x IBM Watson IoT Platform x

https://dashboard.internetofthings.ibmcloud.com/dashboard/devices/browse

### IBM Watson IoT Platform

Browse Action Device Types Interfaces

## Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
23841	Disconnected	iot_device3112

Items per page: 50 | 1-1 of 1 item

#### Simulations

Internet Simulation

5/50 Simulations Running

+ New Simulation

Device Type	Configure Event	On/Off
iot_device3112		

Service Details - IBM Cloud x IBM Watson IoT Platform x

https://dashboard.internetofthings.ibmcloud.com/dashboard/devices/browse

### IBM Watson IoT Platform

Browse Action Device Types Interfaces

## Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
23841	Disconnected	iot_device3112

Items per page: 50 | 1-1 of 1 item

Device Type: iot\_device3112

Event type name: event\_1 Send

Schedule: 20 Every Minute

Period: Specify the event payload in the editor window or by uploading a CSV file.

```
1 "randomnumber": random(0, 100)
2 }
3
```

Upload a CSV file

What functions can I use?

Service Details - IBM Cloud x IBM Watson IoT Platform x

https://dashboard.internetofthings.ibmcloud.com/dashboard/devices/browse

### IBM Watson IoT Platform

Browse Action Device Types Interfaces

## Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type
23841	Disconnected	iot_device3112

Items per page: 50 | 1-1 of 1 item

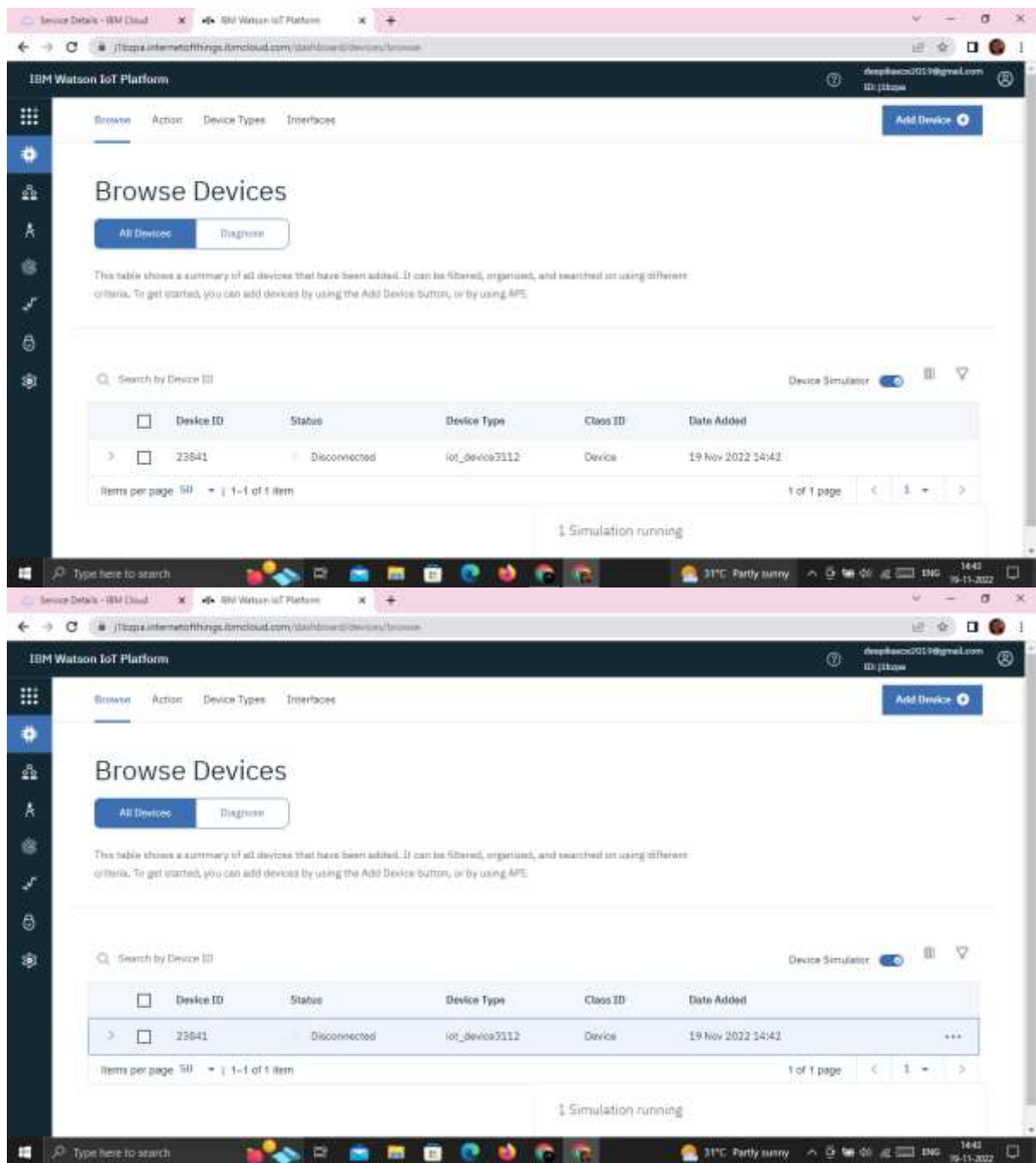
Simulations: Instant Event Simulation

Device Type: iot\_device3112 1 Event

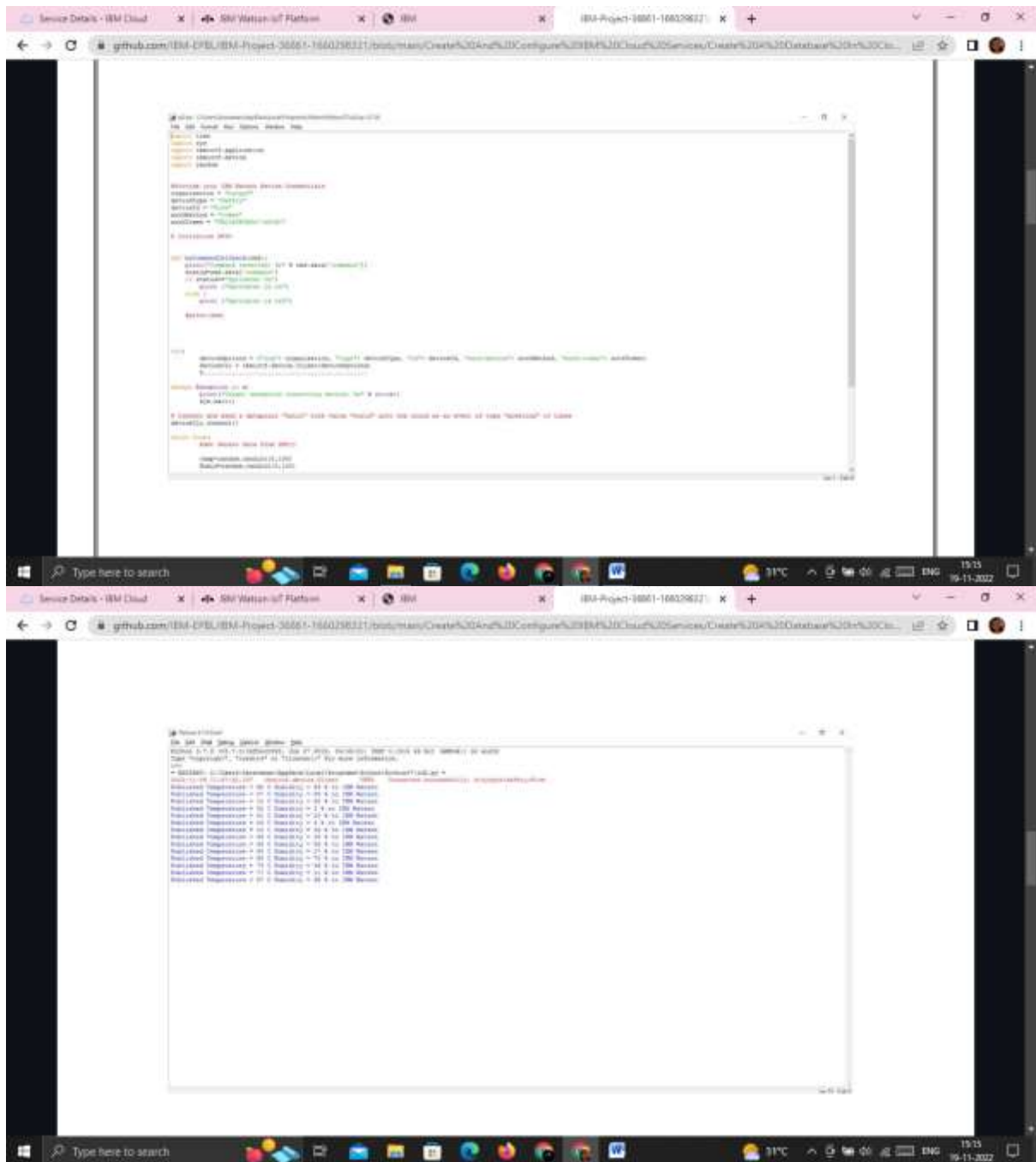
No simulations are currently created for the device type.

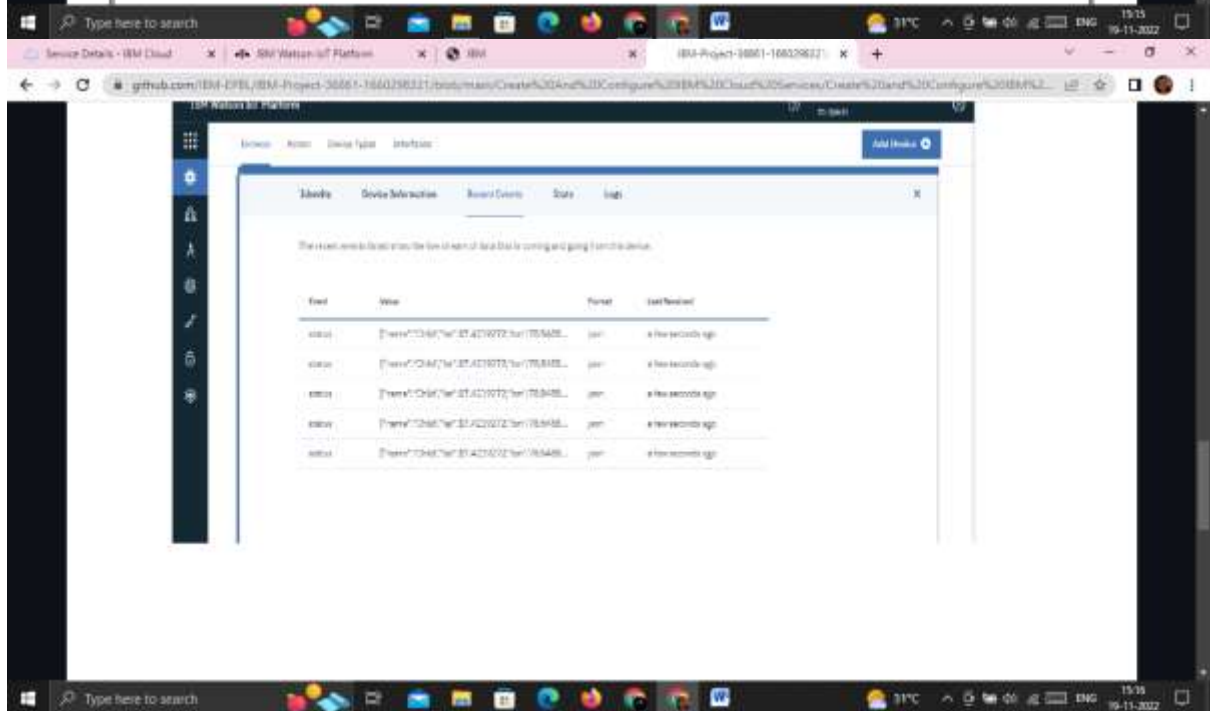
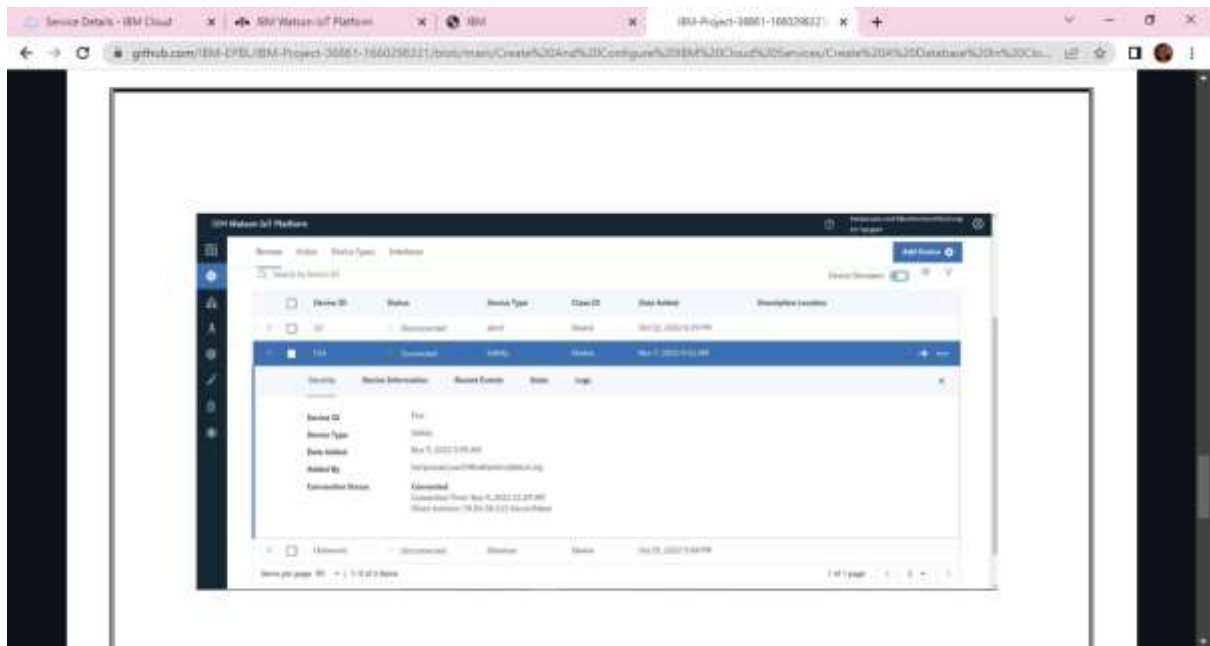
1 x Create Simulated Device Use Registered Device

0 event sent 0 bytes sent









```
Service Details - IBM Cloud x IBM Watson IoT Platform x IBM x IBM Project-38861-1660298327 x +
github.com/IBM-CPBL/IBM-Project-38861-1660298327/blob/main/Develop%20Python%20Scripts/DEVELOPING%20PYTHON%20SCRIPTS.pyd

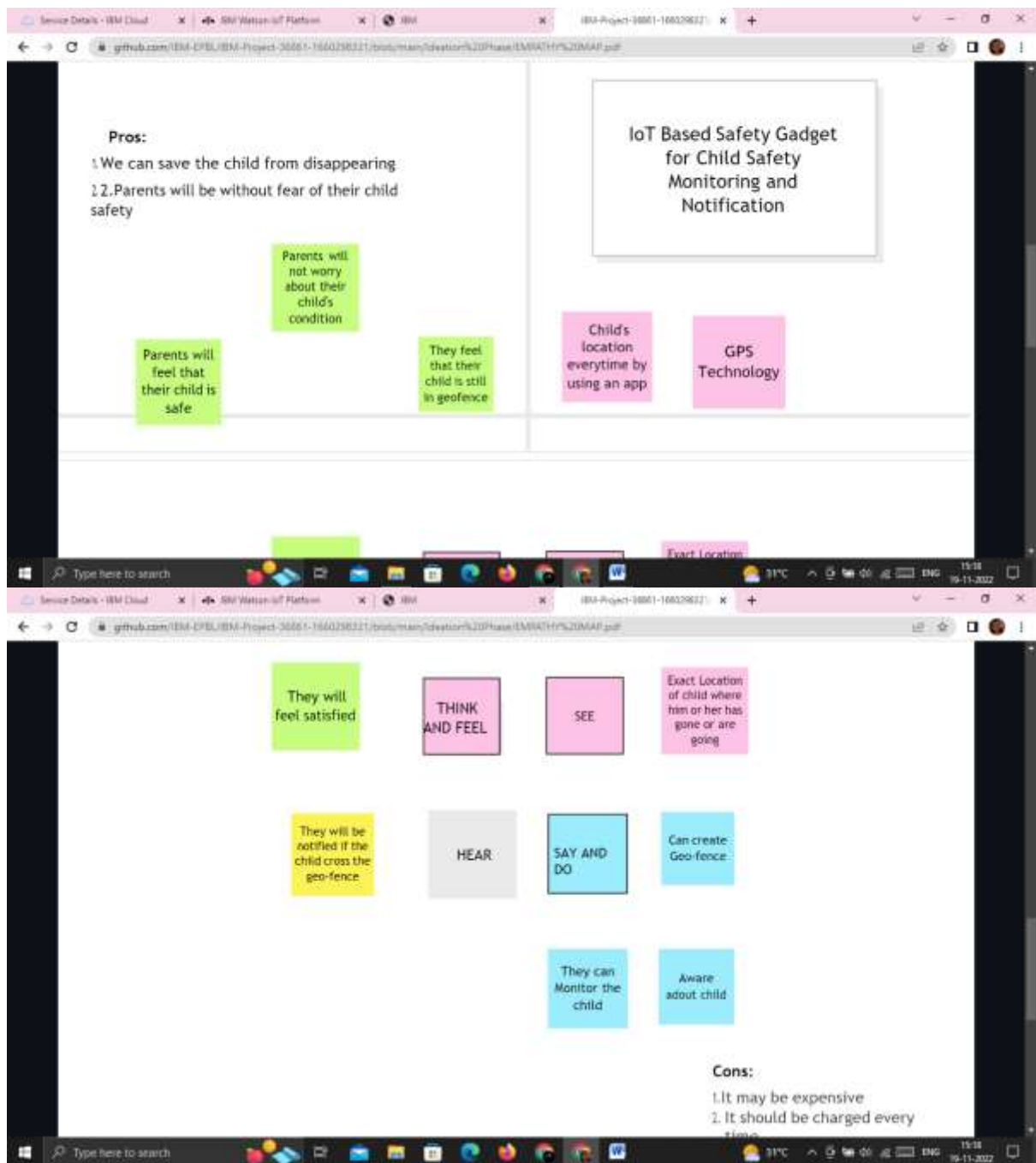
import wiotp.sdk.device
import time
import random

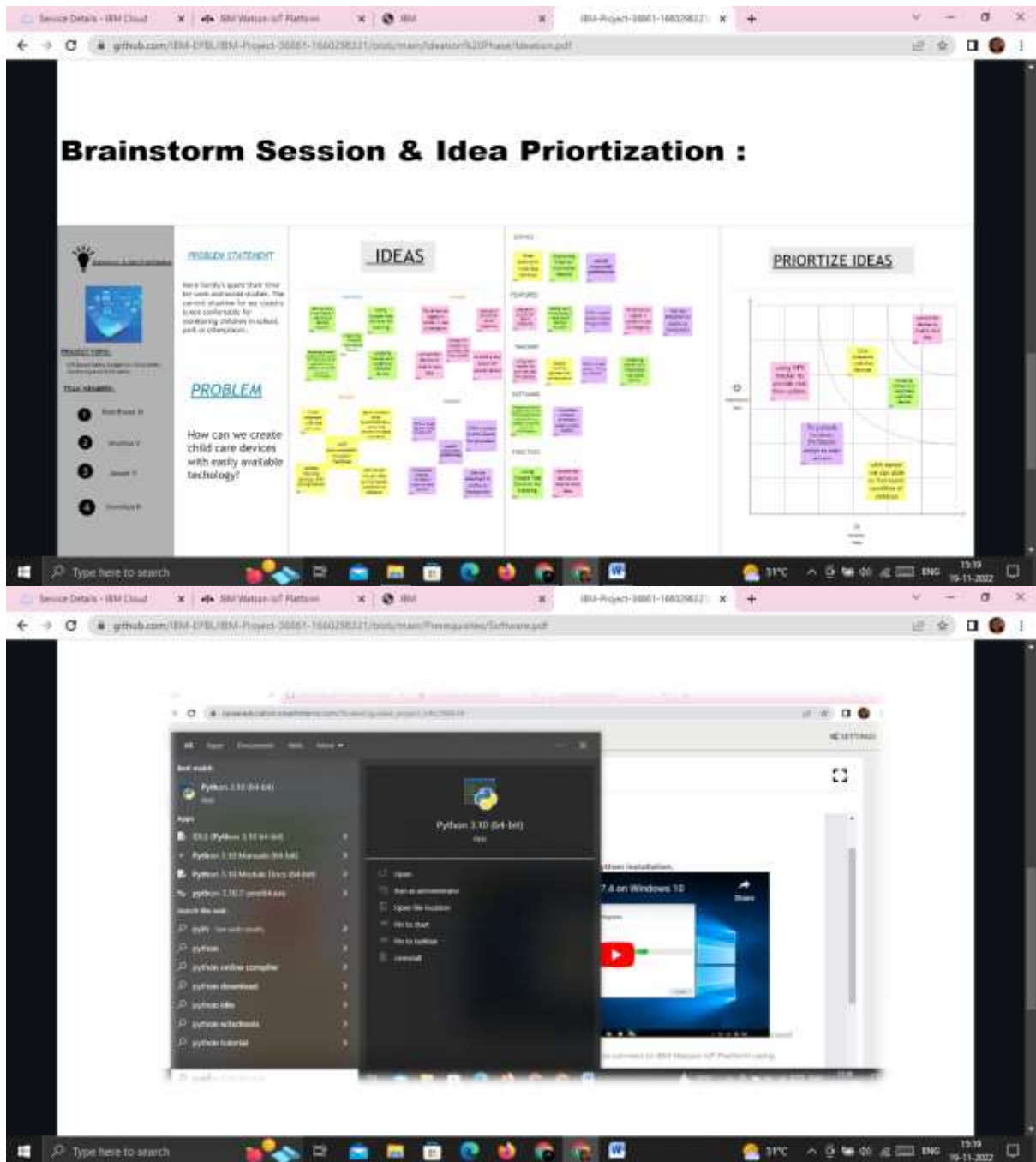
myConfig={
    "identity": {
        "orgId": "gagtey",
        "typeId": "GPS",
        "deviceId": "12345"},
    "auth": {
        "token": "12345678"
    }}

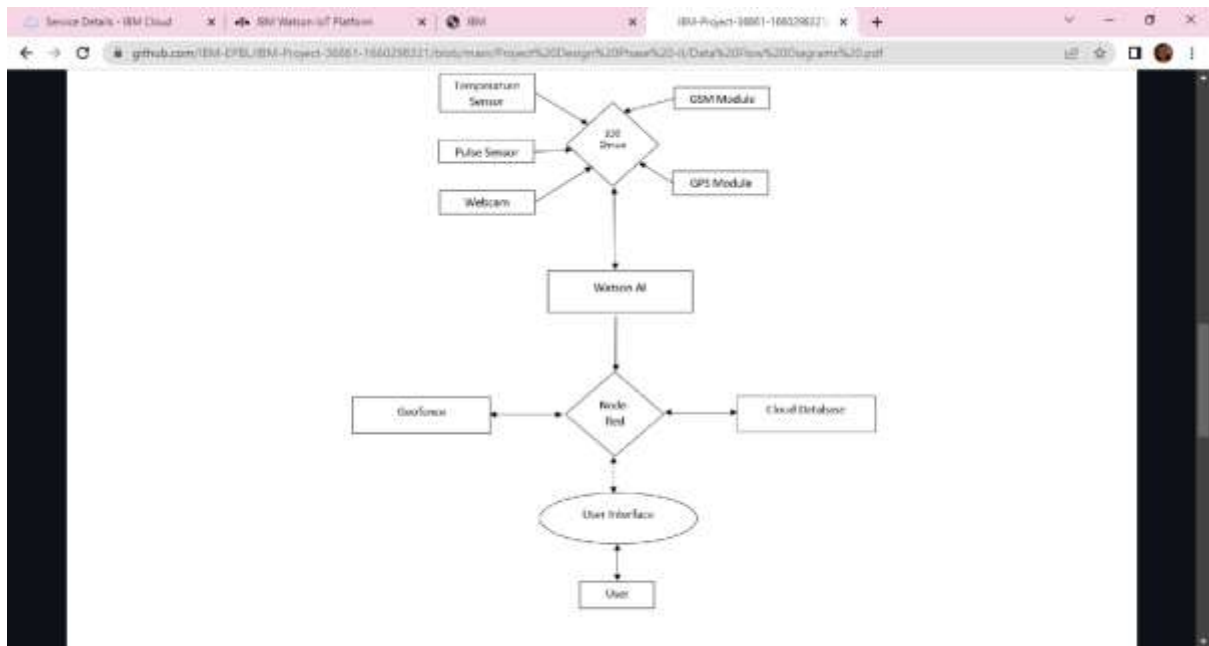
def myCommandCallback(cmd):
    print ("Message received from IBM IoT Platform: %s" %
    cmd.data['command']) m-cmd.data['command']

import cv2
import numpy as np
import time

import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import
BasicAuthenticator
authenticator= BasicAuthenticator ('apikey-v2-
16u3crmdpkgfhxfdikvpssoh5fwzrmuup5fv5g3ubz',
'b0ab119f45d3e6255eabb978
service Cloudant V1 (authenticator-authenticator)
service.set_service_url('https://apikey-v2-
16u3crmdpkgfhxfdikvpssoh5fwzrmuup5fv5g3ubz:b0ab119
```







Project Design Phase-I - Solution Fit Template					
<b>Project Title:</b> IoT Based Safety Gadget for Child Safety Monitoring & Notification <b>TEAM LEAD:</b> BHARANI N.			<b>Team ID:</b> PNT2022TMD23841 <b>TEAM MEMBERS:</b> Adithya V, Deepika B, Geethika M.		
<b>Define CS, M into C</b> Focus on CS, M into C	<b>1. CUSTOMER SEGMENTS</b> Who is our customer? (i) Target primary (ii) & (iii) is a child Children( 0-18 yrs) and women	<b>4. CUSTOMER CONSTRAINTS</b> What constraints get into your customer from study before or after their choice? (i) Customer can't identify location (ii) can't track without connectivity (iii) can't track location	<b>5. AVAILABLE SOLUTIONS</b> Which solution was a match to the customer's problem? How? The problem is monitoring the child's location. The solution is to monitor the child's location. The solution is to monitor the child's location. The solution is to monitor the child's location.	<b>Explore AS, define</b> Focus on AS, define	
	<b>3. JOBS TO BE DONE - PROBLEMS</b> Think about the customer's job, problem, or need. Address the job, problem, or need. How would the job, problem, or need be solved?	<b>6. PROBLEM ROOT CAUSE</b> What is the root cause for the problem? What will help solve the problem? What will help solve the problem? What will help solve the problem?	<b>7. BEHAVIOUR</b> What does your customer do to solve the problem and get the job done? How does your customer do it? How does your customer do it? How does your customer do it?		
	<ul style="list-style-type: none"> <li>Tracking the location of the child.</li> <li>Assuring the child's safety.</li> </ul>	<ul style="list-style-type: none"> <li>In this hectic world, parents cannot monitor the child all the time.</li> <li>The sensor are used regularly to monitor the child. So the quality of the sensor must be checked frequently.</li> </ul>	<ul style="list-style-type: none"> <li>Ornament which contains GPS to find the children's location.</li> <li>Attach GPS device on children's shoes to locate and monitor them.</li> </ul>		

Service Details - IBM Cloud x IBM Watson IoT Platform x IBM x IBM Project-38861-166029822 x

github.com/IBM-CPBL/IBM-Project-38861-166029822/blob/main/Project%20Design%20Phase%20-%20Solution%20Architecture.pdf

<b>3. TRIGGERS</b> What triggers customer to go to a doctor from continuous monitoring capabilities, leading them to more efficient access to the care?  Give awareness to the children about safety.	<b>4. YOUR SOLUTION</b> Customer monitoring is not enough, however, parent must also control whether they like the system and check how much it fits reality. Customer monitoring is a first location requirement. How does it relate with cloud in the system and going up with customer story for better customer experience, using a solution with continuous monitoring system?	<b>6. CHANNELS of BEHAVIOUR</b> What type of channel do customers follow when? (Online versus offline, how, etc.) ➤ Customer can track and upload the live location in cloud database. ➤ Also we can extract the data from the cloud.
<b>4. EMOTIONS BEFORE / AFTER</b> What do customer feel about this? (How a person or a job feel about work) on the customer's emotions, on the job - how do you communicate meaning to them?  ➤ People felt insecure and panic about their children's safety. ➤ They feel more confident about their children's safety.	➤ Giving a toy, ornaments or shoes to the child which contains GPS, mtc, temperature sensor and pulse sensor to know the state of the child. ➤ Create a geofence around the school, park and etc., to monitor the child.	<b>4.2 OFFLINE</b> Whenever of customer's location goes offline (device offline, network & power cuts, you have to maintain development).  While offline by using GSM(Global System for Mobile communication) module, customer can track the child's location.

Type here to search

Service Details - IBM Cloud x IBM Watson IoT Platform x IBM x IBM Project-38861-166029822 x

github.com/IBM-CPBL/IBM-Project-38861-166029822/blob/main/Project%20Design%20Phase%20-%20Solution%20Architecture.pdf

```
graph LR; IOT_DEVICE[IOT DEVICE] --> IBM_PLATFORM[IBM PLATFORM]; IBM_PLATFORM --> Node_RED[Node-RED]; Node_RED --> WEB_UI[WEB UI]; Node_RED --> CLOUDANT_DB[CLOUDANT DB]; WEB_UI --> USER[USER]; USER --> ORNAMENTS[ORNAMENTS]; USER --> SHOES[SHOES]; IOT_DEVICE --> GEOFENCE[GEOFENCE]; GEOFENCE --> IBM_PLATFORM;
```

Type here to search



