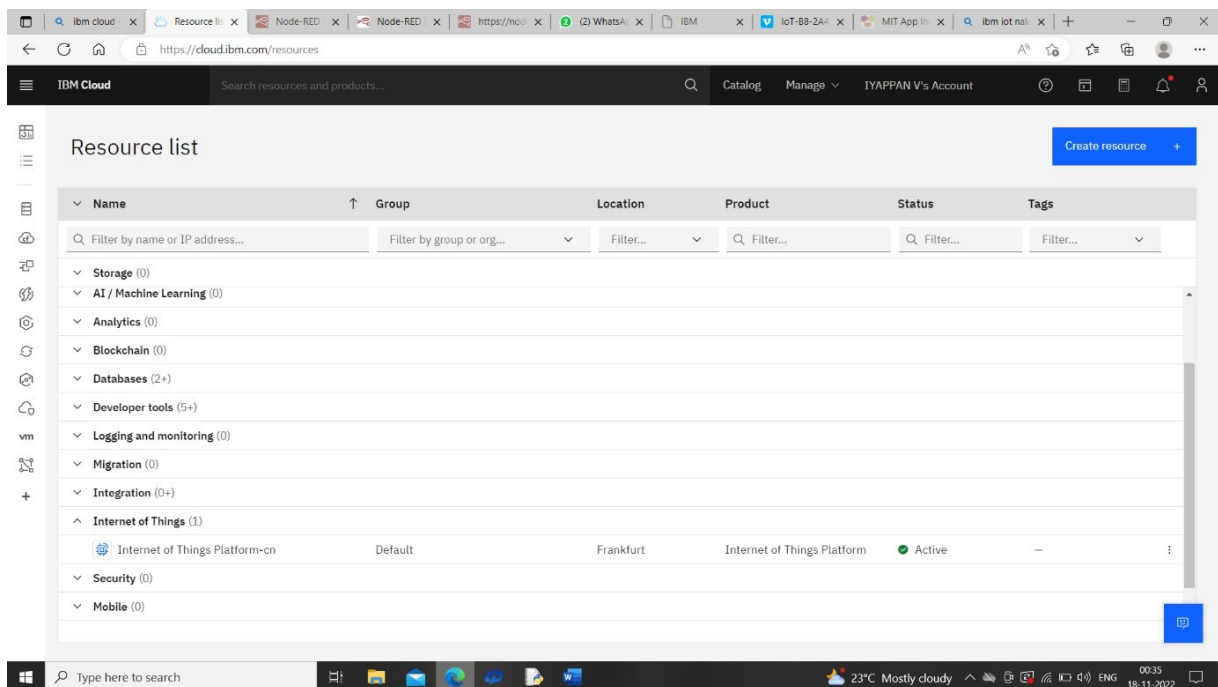


PROJECT DEVELOPMENT PHASE

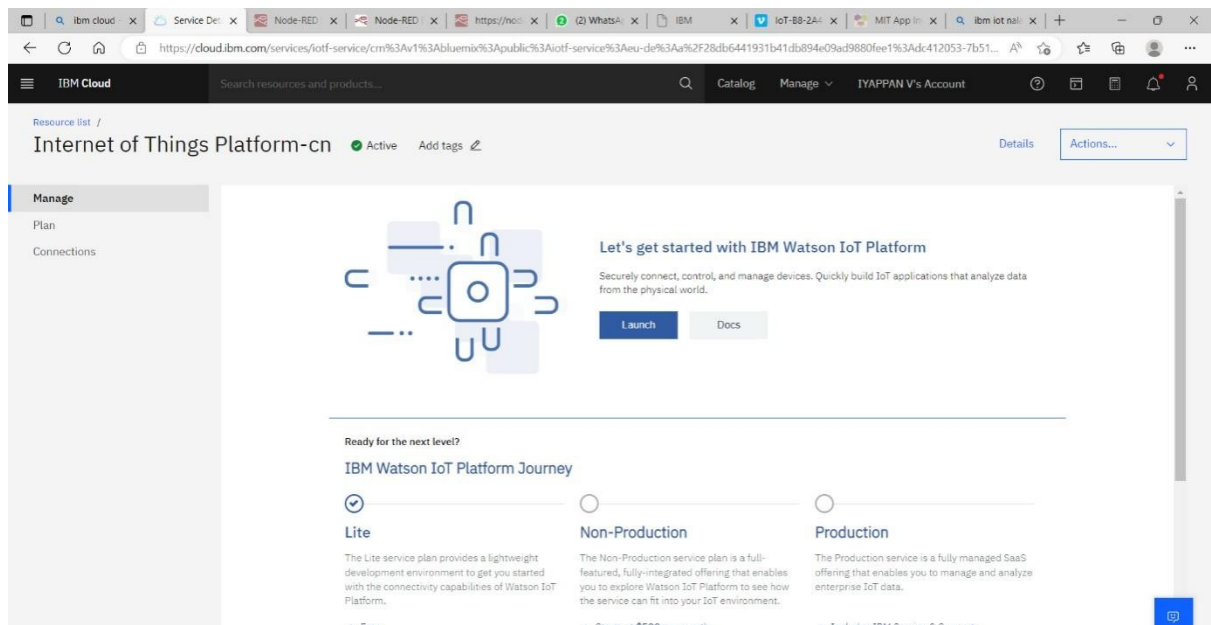
DELIVERY OF - SPRINT 2

TEAM ID	PNT2022TMID36134
PROJECT NAME	Smart Waste managementsystem for metropolitan cities

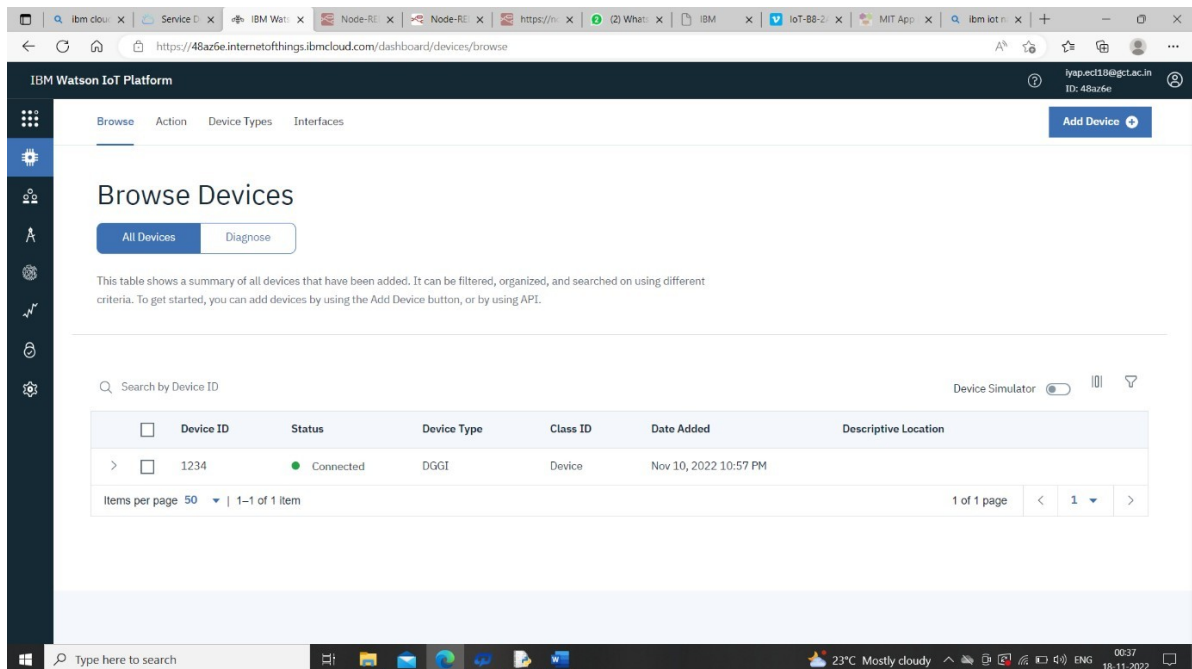
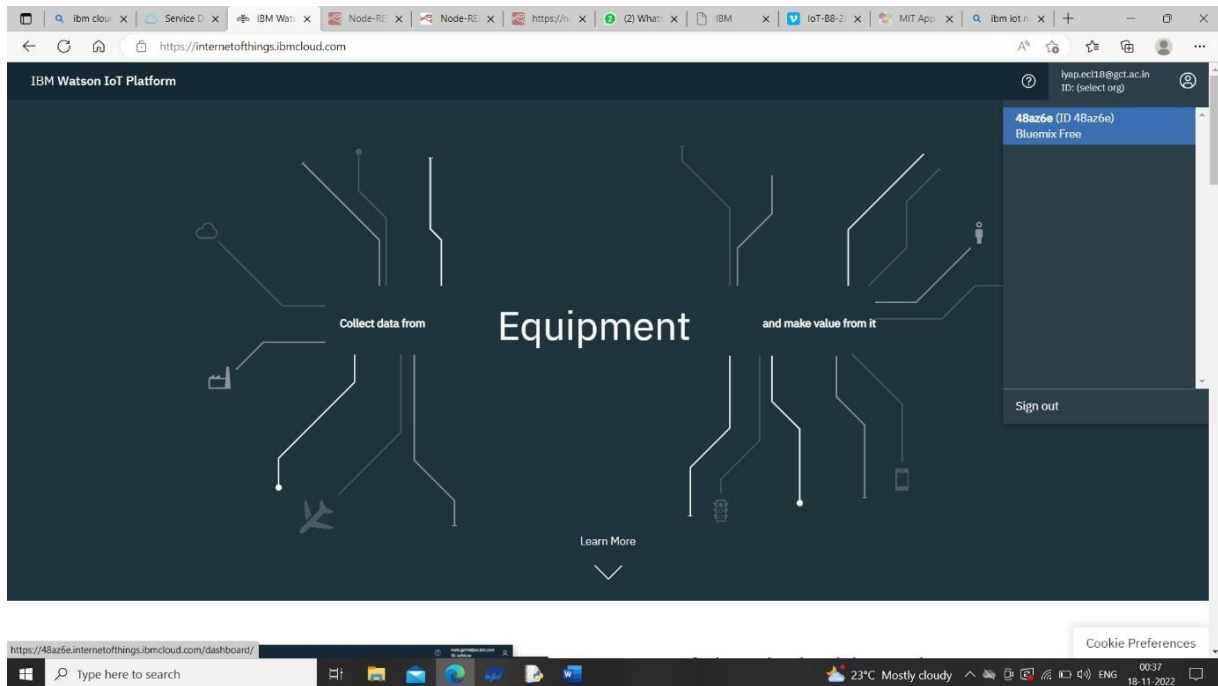
IBM WATSON



The screenshot displays the IBM Cloud console's 'Resource list' page. The browser tabs at the top include 'ibm cloud', 'Resource list', 'Node-RED', and others. The page header shows the user is logged in as 'IYAPPAN V's Account'. The main content area is titled 'Resource list' and features a table with the following columns: Name, Group, Location, Product, Status, and Tags. The table lists various resource categories like Storage, AI / Machine Learning, Analytics, Blockchain, Databases, Developer tools, Logging and monitoring, Migration, Integration, and Internet of Things. The 'Internet of Things' category is expanded, revealing a resource named 'Internet of Things Platform-cn' with a status of 'Active' and a location of 'Frankfurt'.



This screenshot shows the 'Let's get started with IBM Watson IoT Platform' page. The page features a diagram of the IoT architecture on the left and a 'Launch' button on the right. Below this, there is a section titled 'Ready for the next level?' which introduces the 'IBM Watson IoT Platform Journey'. This journey is divided into three stages: 'Lite', 'Non-Production', and 'Production'. Each stage has a brief description of the service plan it offers. The 'Lite' plan is described as a lightweight development environment. The 'Non-Production' plan is a full-featured, fully-integrated offering for exploring the platform. The 'Production' plan is a fully managed SaaS offering for managing and analyzing enterprise IoT data.



IBM WATSON RANDOM FUNCTION

CODE

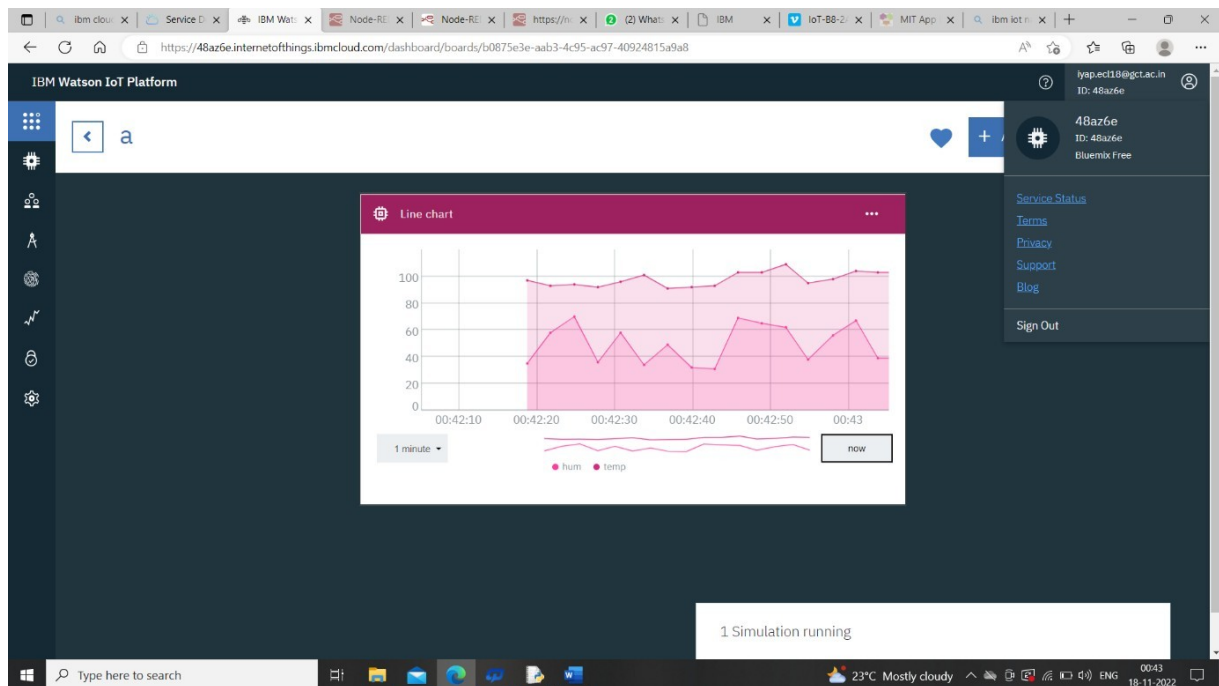
```
{  
  "randomNumber": random(0, 100),  
  "temp": random(90,110),  
  "hum": random(30,70)  
}
```

RANDOM FUNCTION IN IOT WASTON PLATFORM

The screenshot displays the IBM Watson IoT Platform dashboard. The main page is titled 'Browse Devices' and shows a table with one device: ID 1234, Status 'Connected', Device Type 'DGGI', Class ID 'Device', and Date Added 'Nov 10, 2022'. A modal window is open for configuring a new event type named 'iyappan'. The modal includes a 'Schedule' section set to 'Every Minute' and a 'Payload' section with a JSON configuration:

```
{  
  "randomNumber": random(0, 100),  
  "temp": random(90, 110),  
  "hum": random(30, 70)  
}
```

. The modal also has buttons for 'Send', 'Upload a CSV file', 'Cancel', and 'Save'.



IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	DGCI	Device	Nov 10, 2022 10:57 PM	

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
iyappan	{"randomNumber":84,"temp":94,"hum":56}	json	a few seconds ago
event	{"weight":94,"level":23}	json	a few seconds ago
iyappan	{"randomNumber":72,"temp":103,"hum":70}	json	a few seconds ago
iyappan	{"randomNumber":89,"temp":90,"hum":60}	json	a few seconds ago

1 Simulation running

GENARATE API KEY IN IBM WATSON

IBM Watson IoT Platform

Browse IBM Cloud Apps

[+ Generate API Key](#)

Browse API Keys

Type the app description to search for

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking [Generate API Key](#), or by using the API. For more information about adding API keys, see [API key connection](#).

<input type="checkbox"/>	Key	Description	Role	Expires	
3 results					
<input type="checkbox"/>	a-48az6e-al10jsr4gw	-	Standard Application	-	View API Key
<input type="checkbox"/>	a-48az6e-eeo7y9n7rx	API Key for the device simulator	Standard Application	-	View API Key
<input type="checkbox"/>	a-48az6e-qvdloruiqv	API Key for the device simulator	Standard Application	-	View API Key

1 Simulation running

IBM Watson IoT Platform

Browse IBM Cloud Apps

The API key has been added.

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

Generated Details

API Key: a-48az6e-m7vaz2pyl2

Authentication Token: gEqLJRQuIXP*X1IBtS

Warning: Make a note of the generated authentication token. Lost authentication tokens cannot be recovered. If you lose the token, you must reregister the API to generate a new token.

API Key Information

Description: -

Role: Visualization Application

Expires: Never

[View API Key](#) [Add Another](#) [Close](#)

Browse API Keys

Type the app description to search for

1 Simulation running