

SPRINT – 1

PROJECT - Signs With Smart Connectivity For Better Road Safety

TEAM ID - PNT2022TMID21659

GOALS :-

1. Creating and initializing accounts in required APIs and IBM cloud platform.
2. Write a Python program that outputs results given the inputs like weather and location.

IBM WATSON IOT PLATFORM

IBM Watson IoT Platform

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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

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	raspberrypi	Device	Nov 8, 2022 8:22 PM

Items per page 50 | 1-1 of 1 item

1 Simulation running

IBM Cloud

Search resources and products...

Internet of Things Platform-n9 Active Add tags

Details Actions...

Manage

Plan

Connections

Let's get started with IBM Watson IoT Platform

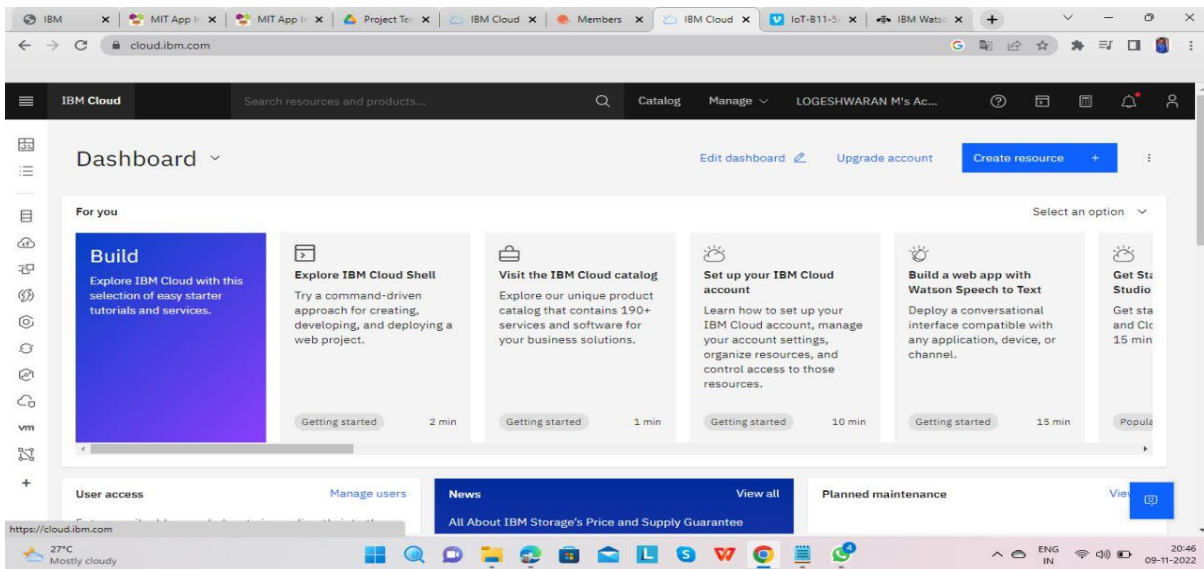
Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.

Launch Docs

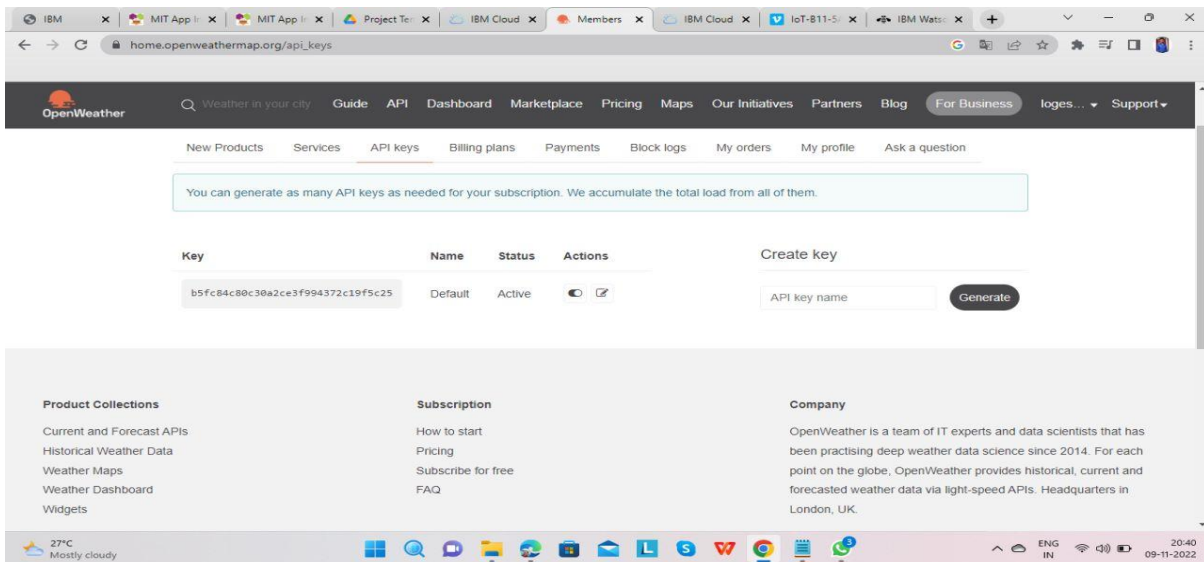
Ready for the next level?

IBM Watson IoT Platform Journey

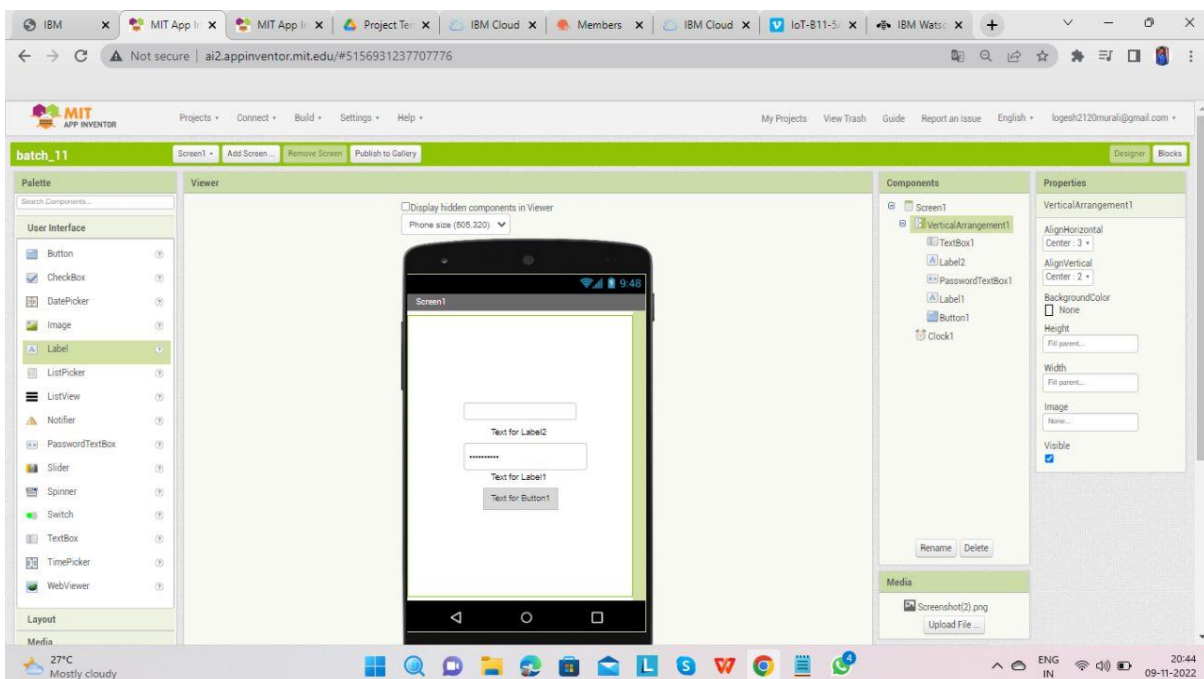
Lite Non-Production Production



OPENWEATHERMAP



MIT APP INVENTOR



Python Code for Weather Forecast

```
# Python code

import requests as reqs

def get(myLocation,APIKEY):
    apiURL =
    f"https://api.openweathermap.org/data/2.5/weather?q={myLocation}&appid={APIKEY}"
    responseJSON = (reqs.get(apiURL)).json()
    returnObject = {
        "temperature" : responseJSON['main']['temp'] - 273.15,
        "weather" : [responseJSON['weather'][_]['main'].lower() for _ in
range(len(responseJSON['weather']))],
        "visibility" : responseJSON['visibility']/100, # visibility in percentage
where 10km is 100% and 0km is 0%
    }
    if("rain" in responseJSON):
        returnObject["rain"] = [responseJSON["rain"][key] for key in
responseJSON["rain"]]
    return(returnObject)
```