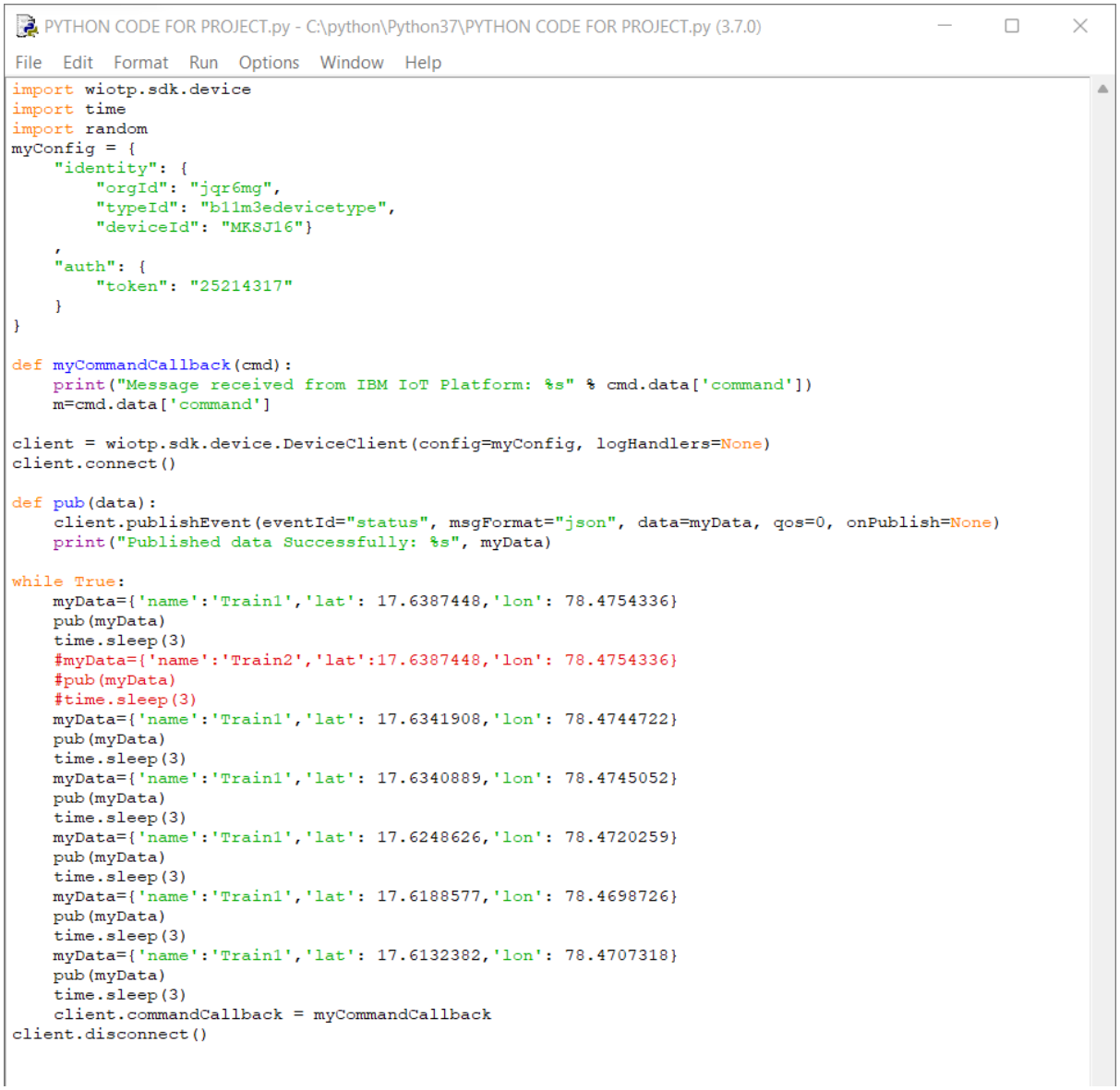
SPRINT-3

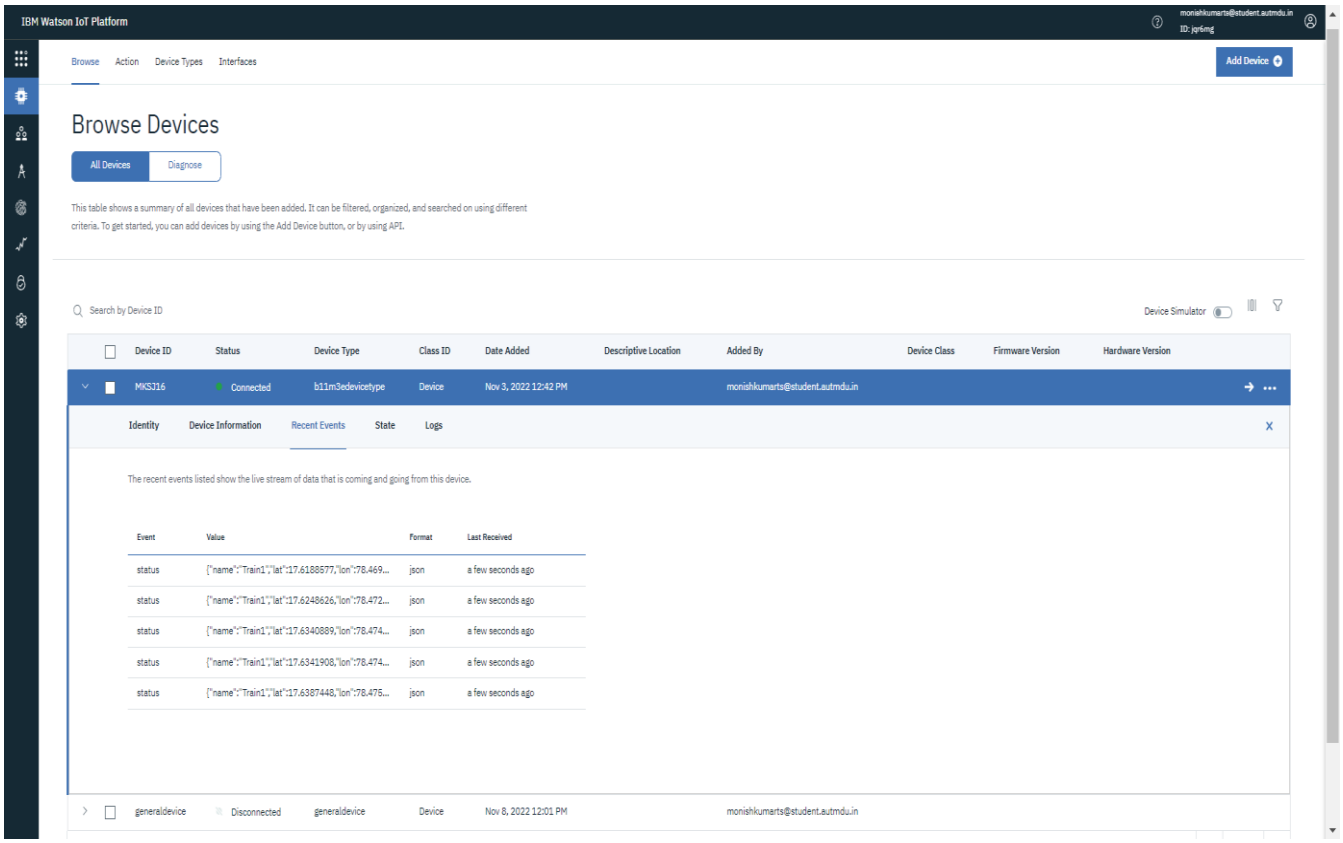
Date	12 November 2022
Team ID	PNT2022TMID47478
Project Name	SMART SOLUTIONS FOR RAILWAYS

A python code for publishing the location (latitude and longitude) data to the IBM IoT Platform :



OUTPUT OF PYTHON CODE:

IBM IOT WATSON OUTPUT USING PYTHON CODE:



PYTHON CODE FOR SCANNER:

scanning code for project.py - C:\python\Python37\scanning code for project.py (3.7.0)

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```
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-v2-16u3crmdpkghhxefdi kvpssoh5fwezrmuup5fv5g3ubz', 'b0ab119f45d3e6255eabb978')
service = CloudantV1(authenticator=authenticator)

service.set_service_url('https://apikey-v2-16u3ermdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119145d3e6255eabb978e7e2f0')

cap= cv2.VideoCapture(0)
font = cv2.FONT_HERSHEY_PLAIN

while True:
        _, frame = cap.read()
        decodedObjects = pyzbar.decode (frame)
        for obj in decodedObjects:
                #print ("Data", obj.data)
                a=obj.data.decode('UTF-8')
                cv2.putText(frame, "Ticket", (50, 50), font, 2, (255, 0, 0), 3)

                #print (a)
                try:
                        response = service.get_document(
                                db='booking',
                                doc_id = a
                        ).get_result()
                        print (response)
                        time.sleep(5)
                except Exception as e:
                        print ("Not a Valid Ticket")
                        time.sleep(5)

        cv2.imshow("Frame",frame)
        if cv2.waitKey(1) & 0xFF ==ord('q'):
                break
cap.release()
cv2.destroyAllWindows()
client.disconnect()
```

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