Implementing Web Application

Create IBM DB2 And Connect With Python

Team ID	PNT2022TMID31287
Project Name	Containment Zone Alerting Application

IBM DB2:
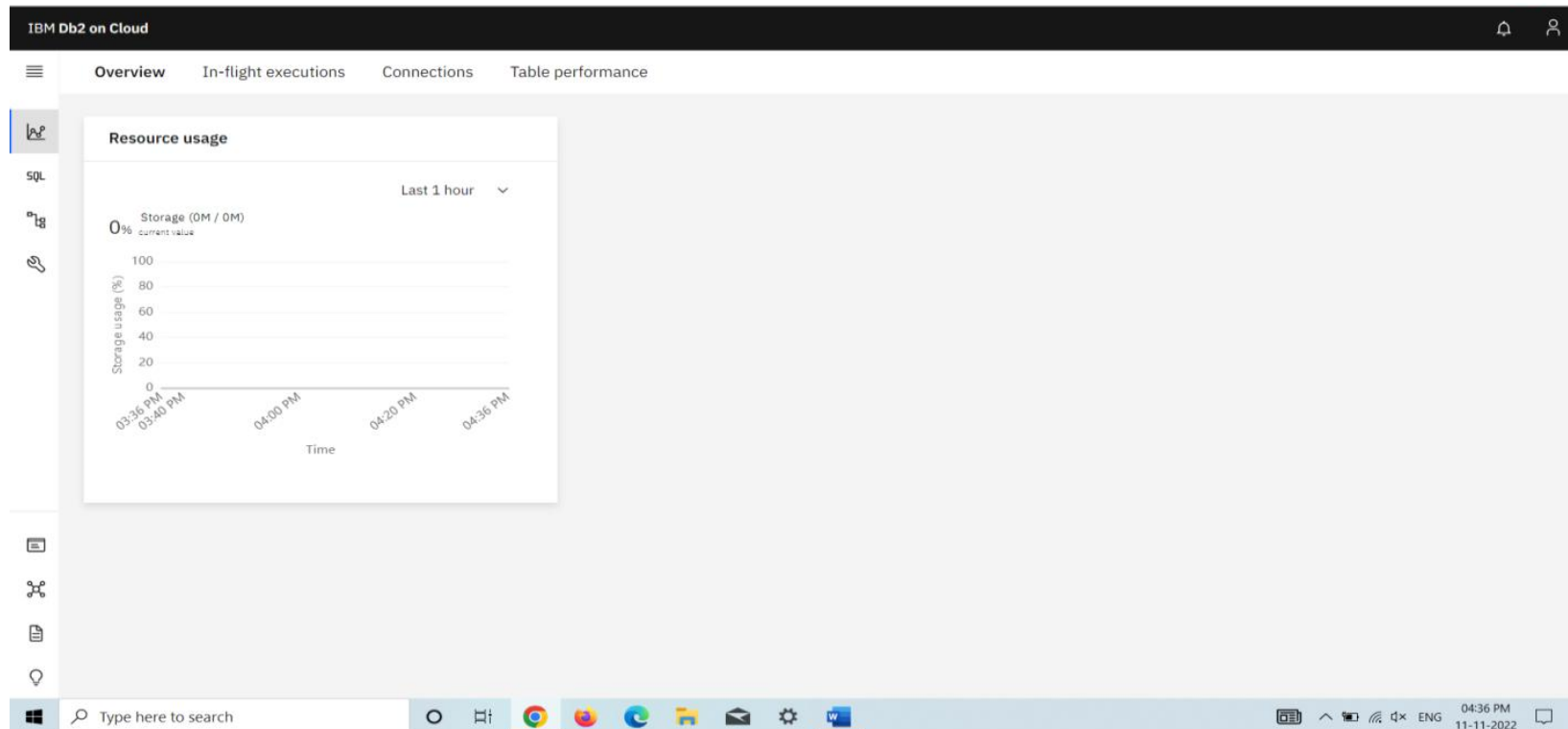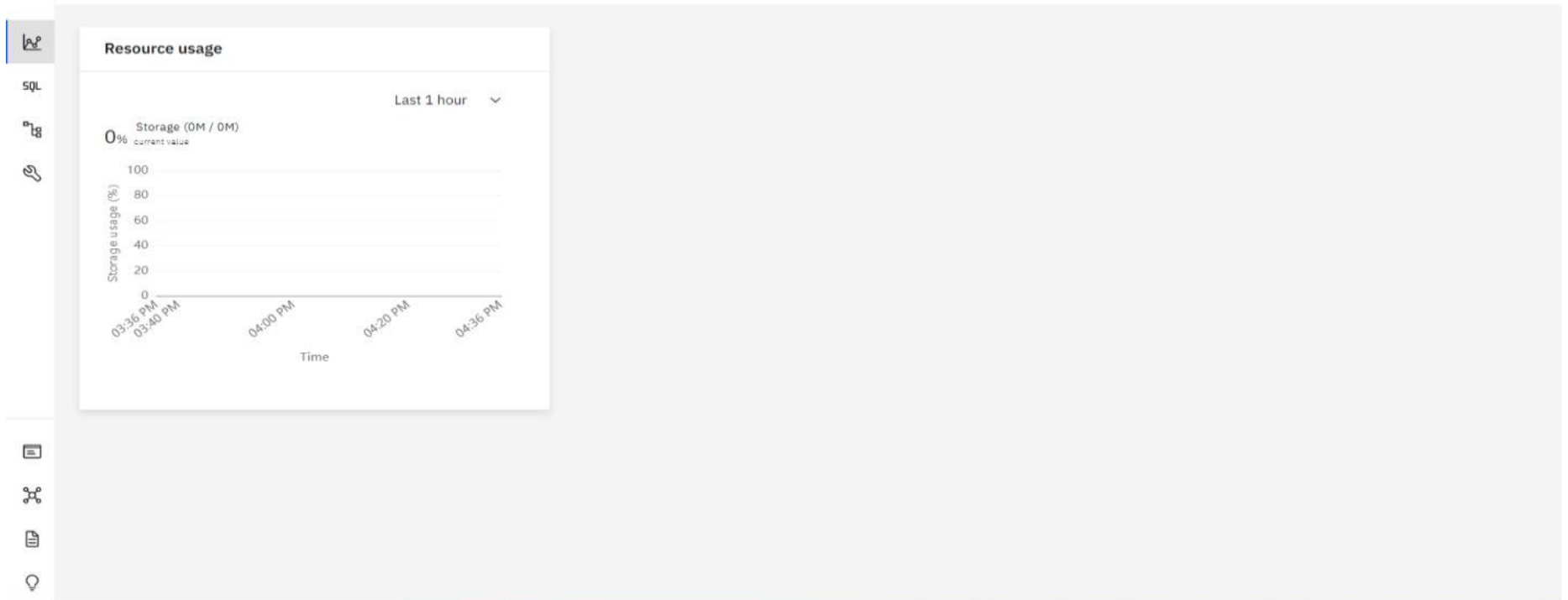
Create IBM DB2 And Connect With Python:

```python
# -*- coding: utf-8 -*-

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from flask import Flask, render_template, request, redirect, url_for, session

import ibm_db

import re

app = Flask(__name__)

app.secret_key = 'a'

conn=ibm_db.connect(""DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=nkq41110;PWD=2jpo8fPJraZ3KYPc","","")

@app.route('/')

def homer():

    return render_template('index.html')

@app.route('/login',methods =['GET', 'POST'])

def login():
```

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    msg=''
if request.method=='post':

    username=request.form['username']

    password=request.form['password']

    sql="SELECT * FROM users WHERE username=? AND password=?"

    stmt=ibm_db.prepare(conn,sql)

        ibm_db.bind_param(stmt,1,username)

        ibm_db.bind_param(stmt,2,password)

        ibm_db.execute(stmt)

        account=ibm_db.fetch_assoc(stmt)

        print(account)

        if account:

            session['Loggedin']=True

            session['id']=account['USERNAME']

            userid=account["USERNAME"]

            session['username']=account["USERNAME"]

            msg='Logged in successfully!'
```

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            return render_template("dashboard.html",msg=msg)

        else:

            msg="Incorrect username/password"

    return render_template('login.html',msg=msg)

    return render_template('login.html')

@app.route('/register', methods =['GET', 'POST'])

def register():

    msg=" "

    if request.method=="POST":

        username=request.form['username']

        password=request.form['password']

        email=request.form['email']

        sql="SELECT * FROM users WHERE username=?"

        stmt=ibm_db.prepare(conn,sql)

        ibm_db.bind_param(stmt,1,username)

        ibm_db.execute(stmt)

        account=ibm_db.fetch_assoc(stmt)
```

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        print(account)

        if account:

            msg="Account already exists!"

        elif not re.match(r'[^@]+@[^@]+\.[^@]+',email):

            msg="Invalid email address"

        elif not re.match(r'[A-Za-z0-9]+',username):

            msg="name must contain only characters and numbers"

        else:

            insert_sql="INSERT INTO user VALUES(?,?,?)"

            prep_stmt=ibm_db.prepare(conn,insert_sql)

            ibm_db.bind_param(prep_stmt,1,email)

            ibm_db.bind_param(prep_stmt,2,username)

            ibm_db.bind_param(prep_stmt,3,password)

            ibm_db.execute(prep_stmt)

            msg='You have successfully registered!'
    elif request.method=='POST':
     msg='Please fill out of the form'
```

```python
    return render_template('register.html')

if __name__ == '__main__':

    app.run(host='0.0.0.0',port=8080)
```