

Create IBM DB2 and Connect with Python

Team ID	PNT2022TMID22121
Project Name	Smart Fashion Recommender Application

Code:

```
import Flask, render_template, request, redirect, url_for, session

import ibm_db
import bcrypt
conn =
ibm_db.connect("DATABASE=bludb;HOSTNAME=;PORT=;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=;PWD=",',',')

# url_for('static', filename='style.css')

app = Flask(__name__)
app.secret_key = b'_5#y2L"F4Q8z\n\xec]/'

@app.route("/",methods=['GET'])
def home():
    if 'email' not in session:
        return redirect(url_for('login'))
    return render_template('home.html',name='Home')

@app.route("/register",methods=['GET','POST'])
def register():
    if request.method == 'POST':
        email = request.form['email']
        username = request.form['username']
        rollNo = request.form['rollNo']
        password = request.form['password']

        if not email or not username or not rollNo or not password:
            return render_template('register.html',error='Please fill all fields')

        hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())

        query = "SELECT * FROM USER WHERE email=? OR rollNo=?"
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stmt = ibm_db.prepare(conn, query)
ibm_db.bind_param(stmt,1,email)
ibm_db.bind_param(stmt,2,rollNo)
ibm_db.execute(stmt)
isUser = ibm_db.fetch_assoc(stmt)

if not isUser:
    insert_sql = "INSERT INTO User(username,email,PASSWORD,rollNo) VALUES
(?,?,?,?)"
    prep_stmt = ibm_db.prepare(conn, insert_sql)
    ibm_db.bind_param(prep_stmt, 1, username)
    ibm_db.bind_param(prep_stmt, 2, email)
    ibm_db.bind_param(prep_stmt, 3, hash)
    ibm_db.bind_param(prep_stmt, 4, rollNo)
    ibm_db.execute(prep_stmt)
    return render_template('register.html',success="You can login")
else:
    return render_template('register.html',error='Invalid Credentials')

return render_template('register.html',name='Home')

@app.route("/login",methods=['GET','POST'])
def login():
    if request.method == 'POST':
        email = request.form['email']
        password = request.form['password']

        if not email or not password:
            return render_template('login.html',error='Please fill all fields')
        query = "SELECT * FROM USER WHERE email=?"
        stmt = ibm_db.prepare(conn, query)
        ibm_db.bind_param(stmt,1,email)
        ibm_db.execute(stmt)
        isUser = ibm_db.fetch_assoc(stmt)
        print(isUser,password)

        if not isUser:
            return render_template('login.html',error='Invalid Credentials')

        isPasswordMatch = bcrypt.checkpw(password.encode('utf-8'),isUser['PASSWORD'].encode('utf-8'))

        if not isPasswordMatch:
            return render_template('login.html',error='Invalid Credentials')

```

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    session['email'] = isUser['EMAIL']
    return redirect(url_for('home'))

    return render_template('login.html',name='Home')

@app.route('/logout')
def logout():
    session.pop('email', None)
    return redirect(url_for('login'))

```

Outputs:

The screenshot shows the IBM Cloud console interface. The top navigation bar includes the IBM Cloud logo, a search bar, and user account information. The main content area displays the 'Service credentials' page for the 'Db2-Job-Recommend-App' resource, which is in an 'Active' state. The page includes a sidebar with navigation links: 'Manage', 'Getting started', 'Service credentials' (selected), and 'Connections'. The 'Service credentials' section contains a description and a 'New credential' button. Below this is a table listing existing credentials.

Key name	Date created
Service credentials-Admin	2022-10-30 3:24 PM

The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 12:22 PM on 13-11-2022.

IBM Cloud

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Db2

A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.

Create About

Type

Service

Provider

IBM

Last updated

11/10/2022

Category

Databases

Compliance

EU Supported

HIPAA Enabled

IAM-enabled

Location

Sydney

Frankfurt

London

Dallas

Sao Paulo

Toronto

Tokyo

Milan 01

Montreal 01

Washington DC

Related links

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Select a location

Dallas (us-south) ▼

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multi-tenant system	Free
Standard	Instance with flexible scaling of compute and storage Data Instance starts at 8 GB RAM x 20 GB storage vCPU Enabled	<div>\$0.114 USD/vInstance-Hour</div> <div>\$0.00077 USD/gigabyte-Hours</div> <div>\$0.097 USD/Virtual Processor Core-Hour</div> <div>\$0.00063 USD/BACKUP_GIGABYTE_HOURS</div> <div>\$0.0999</div> <div>USD/SERVICEENDPOINT_INSTANCE_HOURS</div>
Enterprise	Dedicated instance with flexible scaling of compute and storage Base instance starts at 4 vCPU x 16 GB RAM x 20 GB Storage	<div>\$1.30 USD/Instance-Hour</div> <div>\$0.00027 USD/gigabyte-Hours</div>

The starting configuration provides one SQL database per service instance residing on shared compute allows, with 2 sharable vCPUs (8 GB of memory), and 20 GB of storage for data and logs. All database deployed across multi-tenant compute infrastructure. Scale your databases up to 54 vCPUs (64 GB of memory) and 4 TB of storage for data and logs. Standard offers a high availability option that includes one database running on three shared virtual servers. Each HA node is billed separately. The high availability virtual servers are provisioned across multiple availability zones in IBM Cloud regions that support it. Scale your compute and storage independently to achieve the perfect price/performance fit. Each plan includes up to 100 GB of backup storage, stored for 34 days.

Summary

Db2

Location: Dallas

Plan: Standard

Service name: Db2-yy

Resource group: Default

This paid plan cannot be added to an IBM Cloud trial account.

You can add a credit card to create a Pay As You Go account. If a free plan for this service is available, you can choose to add it.

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

Upgrade

Add to estimate

ENG US

12:21 PM

13-11-2022

Service Details - IBM Cloud

IBM Db2 on Cloud

https://cloud.ibm.com/console/index...

pattern zerocha Headspace index TradingView - Track... screener Options Trading Sk... Bookmarks jogesh Omegle Video Chat... TS WEB IBM

IBM Db2 on Cloud

X

Dashboard

Run SQL

Data

Administration

About

APIs

Documentation

Support

Overview

In-flight executions

Connections

Table performance

Resource usage

Last 1 hour

Storage (MB / GB) current value

Storage usage (%)

Time