

### Assignment-3

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<b>PROJECTNAME</b>	SKILL AND JOB RECOMMENDER APPLICATION
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1. Create User table with user with email, username, roll number, password.

```
CREATE TABLE User(  
    username varchar(20) not null, email  
    varchar(50) not null,  
    password varchar(20) not null)  
  
INSERT INTO User(username, email, password)  
VALUES('sathees', '0703sathees@gmail.com', 'sathees')
```

2. Perform UPDATE, DELETE Queries with user table

```
UPDATE User SET username = 'sathees' WHERE email = '0703sathees@gmail.com'  
  
'DELETE FROM user WHERE username = 'sathees'
```

3. Connect python code to db2.

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-  
433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;  
PORT=32459;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;  
UID=fmc62217;PWD=hAa2nnBu8JERvLCv;", "", "")
```

4. Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

### login.html

```
<html>

<head>

<metacharset="UTF-8">

<title>Login</title>

<link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">

    </head>

    <body></br></br></br></br></br>

        <div align="center">

            <div align="center" class="border">

                <div class="header">

                    <h1 class="word">Login</h1>

                </div></br></br></br>

                <h2 class="word">

                    <form action="{{url_for('login')}}" method="post">

                        <div class="msg"></div>

                            <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br></br>

                            <input id="password" name="password"
type="password" placeholder="Enter Your Password" class="textbox"/></br></br></br>

                            <input type="submit" class="btn" value="Sign
In"></br></br>

                        </form>

                    </h2>

                    <p class="bottom">Don't have an account? <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a></p>

                </div>
```

```
        </div>

    </body>

</html>
```

### **register.html:**

```
<html>

    <head>

        <metacharset="UTF-8">

        <title>Register</title>

        <linkrel="stylesheet"href="{{url_for('static',filename='style.css')}}">

    </head>

    <body></br></br></br></br></br>

        <divalign="center">

            <divalign="center"class="border">

                <divclass="header">

                    <h1class="word">Register</h1>

                </div></br></br></br>

                <h2class="word">

                    <formaction="{{url_for('register')}}"method="post">

                        <divclass="msg">{{msg}}</div>

                            <inputid="username"name="username"type="text"
placeholder="Enter Your Username" class="textbox"/></br></br>

                            <input id="password" name="password"
type="password"placeholder="EnterYourPassword"class="textbox"/></br></br>

                            <inputid="email"name="email"type="text"
placeholder="Enter Your Email ID" class="textbox"/></br></br>

                            <inputtype="submit"class="btn"value="Sign
Up"></br>

                        </form>

                    </h2>
```

```
                <pclass="bottom">Alreadyhaveanaccount?<aclass="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>
            </div>
        </div>

    </body>
</html>
```

### **index.html:**

```
<html>
    <head>
        <metacharset="UTF-8">
        <title>Index</title>
        <linkrel="stylesheet"href="{{url_for('static',filename='style.css')}}">

    </head>
    <body></br></br></br></br></br>
        <divalign="center">
            <divalign="center"class="border">
                <divclass="header">
                    <h1class="word">Index</h1>
                </div></br></br></br>
                <h1class="bottom">
                    Hi{{session.username}}!!</br></br>WelcometoOur
page...

                </h1></br></br></br>
                <a href="{{url_for('logout')}}" class="btn">Logout</a>
            </div>
        </div>
    </body>
</html>
```

### **app.py:**

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

app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fmc62217;PWD=hAa2nnBu8JERvLCv;","")

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

    if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
        username = request.form['username']
        password = request.form['password']

        stmt = ibm_db.prepare(conn, 'SELECT * FROM Users WHERE Username = ? AND password = ?')
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)

        if account:
            session['loggedin'] = True
            session['username'] = account['USERNAME']

            msg = 'Logged in successfully !'

            return render_template('index.html', msg=msg)
        else:
            msg = 'Incorrect username/password'

    !
```

```
returnrender_template('login.html',msg=msg)
```

```
@app.route('/logout')
```

```
def logout():
```

```
    session.pop('loggedin', None)
```

```
    session.pop('id', None)
```

```
    session.pop('username',None)
```

```
    returnredirect(url_for('login'))
```

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

```
def register():
```

```
    msg="
```

```
    ifrequest.method=='POST'and'username'inrequest.formand'password'inrequest.form    and  
'email' in request.form :
```

```
        username=request.form['username']
```

```
        password=request.form['password']
```

```
        email = request.form['email']
```

```
        stmt=ibm_db.prepare(conn,'SELECT*FROMUsersWHEREUsername=?')
```

```
        ibm_db.bind_param(stmt,1,username)
```

```
        ibm_db.execute(stmt)
```

```
        account=ibm_db.fetch_assoc(stmt)
```

```
        if account:
```

```
            msg='Accountalreadyexists !'
```

```
        elifnotre.match(r'^[@]+@[^@]+\.[^@]+',email): msg
```

```
            = 'Invalid email address !'
```

```
        elifnotre.match(r'[A-Za-z0-9]+',username):
```

```
            msg='Usernameonlycontaincharactersandnumbers!' elif not
```

```
        username or not password or not email:
```

```
            msg='Pleasefillouttheform!'else:
```

```
            prep_stmt=ibm_db.prepare(conn,"INSERTINTOUsersVALUES(?,?,?)")
```

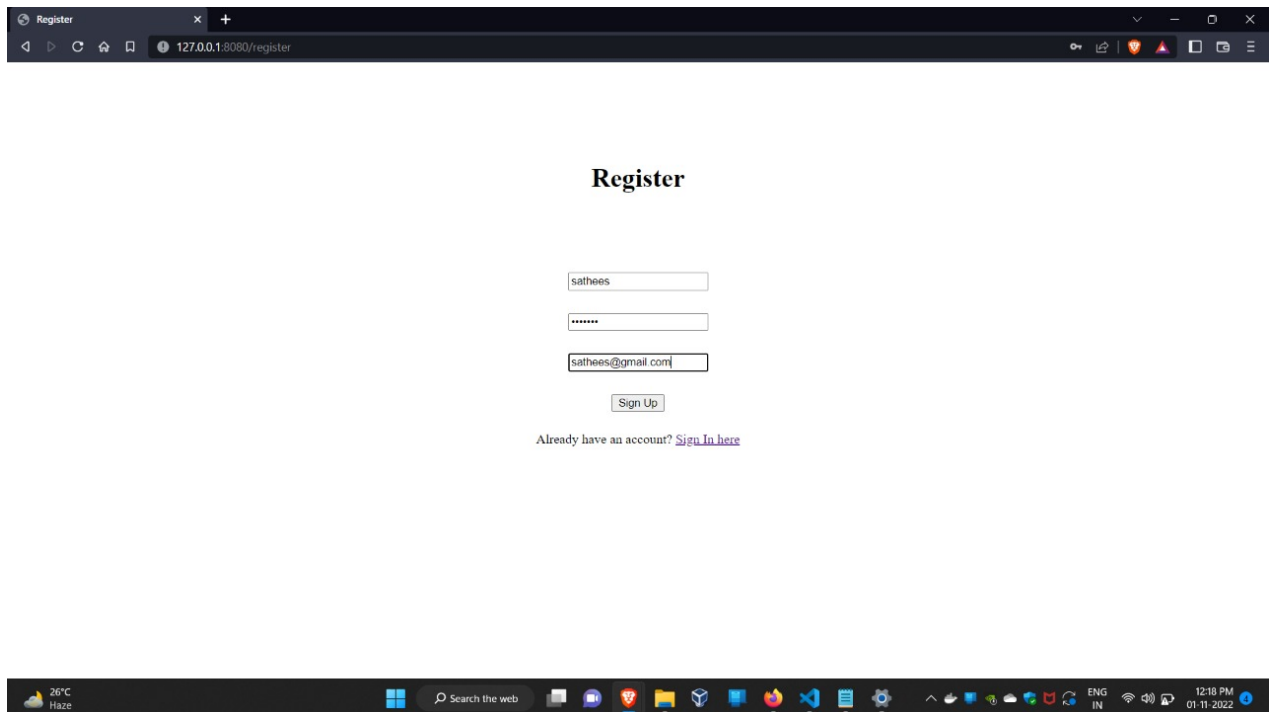
```

        ibm_db.bind_param(prepare_stmt,1,username)
        ibm_db.bind_param(prepare_stmt,2,email)
        ibm_db.bind_param(prepare_stmt,3,password)
        ibm_db.execute(prepare_stmt)
        msg='You have successfully registered!' elif
request.method == 'POST':
        msg='Please fill out the form!'
return render_template('register.html',msg=msg)

if __name__ == '__main__':
    app.debug =
    True
    app.run(host='0.0.0.0',port=8080)

```

## Output:





## Register

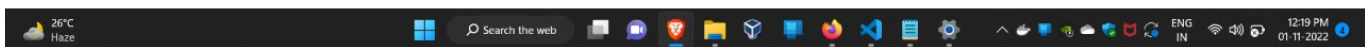
**You have successfully registered !**

Already have an account? [Sign In here](#)



## Login

Don't have an account? [Sign Up here](#)





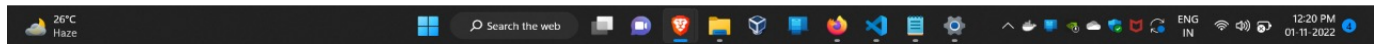


## Index

Hi sathees!!

Welcome to Our page...

[Logout](#)



Service Details - IBM Cloud

IBM Db2 on Cloud

https://bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F96b3ab76fdc642edbc

IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

Find schemas or tables

Refresh

Tables

Name

Schema

Properties

USERS

MRK02627

...

New table

Total: 1, selected: 0

Table definition

USERS

Approximate 1 rows (32.0 KB)  
Updated on 2022-11-01 07:00:16

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	N	20	0
EMAIL	VARCHAR	N	100	0
PASSWORD	VARCHAR	N	20	0

View data

25°C  
Raining now

Search the web

ENG  
IN

05:01 PM  
01-11-2022

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

MRK02627.USERS

Back

Export to CSV

USERNAME	EMAIL	PASSWORD
sathees	sathees@gmail.com	sathees

25°C Raining now

Search the web

ENG IN 05:00 PM 01-11-2022

