Assignment -2

Team id	PNT2022TMID50267
PROJECT NAME	SKILL\JOB RECOMMENDER
	APPLICATION
NAME	MUTHU AJAY N
ROLL NO	951819104016

1. Create User table with usertable with email, username, roll number, password.

CREATE TABLE users(email varchar(50) not null, username varchar(20) not null, passwordvarchar(20) not null)

INSERT INTO users(email, username, , password)

VALUES('muthuajay@gmail.com','muthuajay','muthu')

2. Perform UPDATE, DELETE Queries with user table

UPDATE users SET username='muthuajay' WHERE
email='muthuajay@gmail.com'DELETE FROM usertable WHERE username =
'muthuajay'

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= thj60473; PWD= I3kWDRo08yQRjnYS;",",")

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>
             <meta charset="UTF-8">
             <title> Login </title>
             k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
      </head>
      <body></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Login</h1>
                    </div></br></br>
                    <h2 class="word">
                           <form action="{{ url_for('login') }}" method="post">
                           <div class="msg">{{ msg }}</div>
                                  <input id="username" name="username" type="text"</pre>
placeholder="Enter Your Username" class="textbox"/></br>
                                  <input id="password" name="password"</pre>
type="password" placeholder="Enter Your Password" class="textbox"/></br></br>
                                  <input type="submit" class="btn" value="Sign</pre>
In"></br>
                           </form>
                    </h2>
                    Don't have an account? <a class="bottom"</pre>
href="{{url_for('register')}}"> Sign Up here</a>
             </div>
```

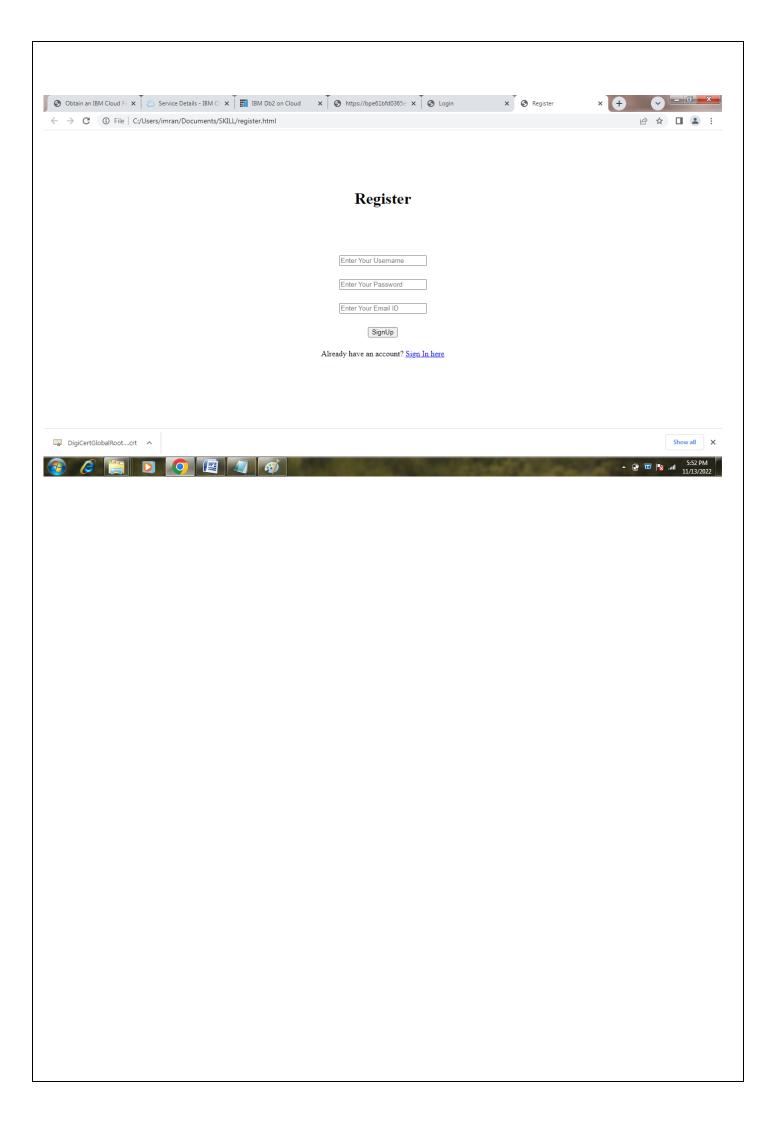
```
</div>
       </body>
</html>
register.html:
<html>
       <head>
             <meta charset="UTF-8">
             <title> Register </title>
             k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
       </head>
       <body></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Register</h1>
                    </div></br></br>
                    <h2 class="word">
                           <form action="{{ url_for('register') }}" method="post">
                           <div class="msg">{{ msg }}</div>
                                  <input id="username" name="username" type="text"</pre>
placeholder="Enter Your Username" class="textbox"/></br>
                                  <input id="password" name="password"
type="password" placeholder="Enter Your Password" class="textbox"/></br>
                                  <input id="email" name="email" type="text"</pre>
placeholder="Enter Your Email ID" class="textbox"/></br>
                                  <input type="submit" class="btn" value="Sign</pre>
Up"></br>
                           </form>
                    </h2>
 Already have an account? <a class="bottom"</pre>
href="{{url_for('login')}}"> Sign In here</a>
```

```
</div>
             </div>
       </body>
</html>
index.html:
<html>
       <head>
             <meta charset="UTF-8">
             <title> Index </title>
             k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
       </head>
       <body></br></br></br>
             <div align="center">
             <div align="center" class="border">
                    <div class="header">
                           <h1 class="word">Index</h1>
                    </div></br></br>
                           <h1 class="bottom">
                                  Hi {{session.username}}!!</br></br> Welcome to Our
page..
                           </h1></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 ibm_db
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= thj60473;PWD=
"I3kWDRo08yQRjnYS",)
@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 usertable WHERE username = ?
ANDpassword = ?')
    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 !'
return render 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'])
               msg = "
def register():
  if request.method == 'POST' and 'username' in request.form and 'password' in request.form
and 'email' in request.form:
    username = request.form['username']
password = request.form['password']
email = request.form['email']
    stmt = ibm_db.prepare(conn, 'SELECT * FROM users WHERE username = ?')
ibm_db.bind_param(stmt,1,username)
                                          ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
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 = 'Username must contain only characters and numbers!'
elif not username or not password or not email:
       msg = 'Please fill out the form!'
else:
       prep_stmt = ibm_db.prepare(conn,"INSERT INTO users VALUES(?, ?, ?)")
ibm_db.bind_param(prep_stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3,password)
                                               i
bm_db.execute(prep_stmt)
```

```
msg = 'You have successfully registered!'
elif request.method == 'POST':
                                         msg =
'Please fill out the form!'
  return render_template('register.html', msg = msg)
if <u>__name__</u> == '_main__':
  app.debug = True
  app.run(host='0.0.0.0',port=8080)
Output:
                                                Login
                                            Enter Your Username
                                            Enter Your Password
                                                 Sign In
                                         Don't have an account? Sign Up here
```





Index

Hi Mohamed Imran!!

Welcome to Our page..

Logout

