### **Assignment -2**

Cloud Application Development Assignment Date	19 September 2022
Student Name	Ms. Sruthi. B
Student Roll Number	211519104160
Maximum Marks	2 Marks

#### **Ouestion:**

- 1. Create a flask App
- 2. Add the Home page, About page
- 3. Add the Bootstrap
- 4. Add the Sign in page and App the Signup page + database connectivity

### **Creating the Database and setting-up Tables:**

```
SQL File 4" ×
1 Limit to 1000 rows
                                                     - | 🌟 | 🥩 Q 🗐 🔁
        CONTRACTOR NOT EXTERE SET utf8 COLLATE utf8_general_ci;
         Execute the selected portion of the script or everything, if there is no selection
  3
  4 ● ⊖ CREATE TABLE IF NOT EXISTS `accounts` (
           'id' int(11) NOT NULL AUTO_INCREMENT,
  5
           'username' varchar(50) NOT NULL,
  6
           'password' varchar(255) NOT NULL,
  7
  8
           'email' varchar(100) NOT NULL,
  9
           PRIMARY KEY ('id')
 10
      ) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8;
 11
      INSERT INTO `accounts` ('id', 'username', 'password', 'email') VALUES (1, 'test', 'test', 'test@t
 12 •
```

#### main.py

## import the packages

from flask import Flask, render\_template, request, redirect, url\_for, session

from flask\_mysqldb import MySQL

import MySQLdb.cursors

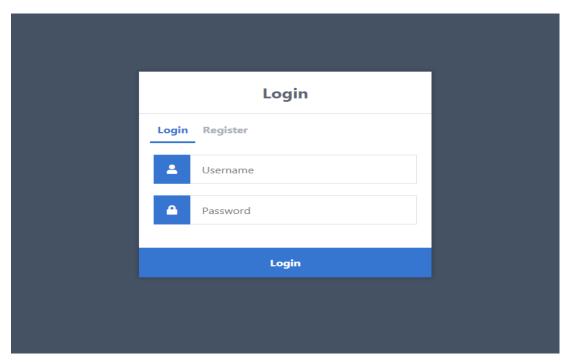
import re

```
MySQL connection
app = Flask(_name_)
app.secret_key = 'your secret key'
app.config['MYSQL_HOST'] = 'localhost'
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = "
app.config['MYSQL_DB'] = 'pythonlogin'
mysql = MySQL(app)
@app.route('/pythonlogin/', methods=['GET', 'POST'])
def login():
  msg = "
  return render_template('index.html', msg=")
Authenticating with users
  if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
    username = request.form['username']
    password = request.form['password']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor.execute('SELECT * FROM accounts WHERE username = %s AND password = %s',
(username, password,))
    account = cursor.fetchone()
    if account:
       session['loggedin'] = True
       session['id'] = account['id']
       session['username'] = account['username']
       return 'Logged in successfully!'
    else:
       msg = 'Incorrect username/password!'
```

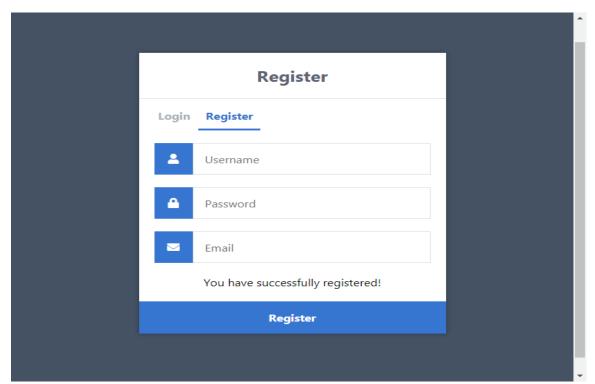
```
Logout script
@app.route('/pythonlogin/logout')
def logout():
 session.pop('loggedin', None)
 session.pop('id', None)
 session.pop('username', None)
 return redirect(url_for('login'))
Registering user
@app.route('/pythonlogin/register', methods=['GET', 'POST'])
def register():
  msg = "
  if request.method == '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']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor.execute('SELECT * FROM accounts WHERE username = %s', (username,))
     account = cursor.fetchone()
    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:
       cursor.execute('INSERT INTO accounts VALUES (NULL, %s, %s, %s)', (username,
password, email,))
       mysql.connection.commit()
       msg = 'You have successfully registered!'
  elif request.method == 'POST':
    msg = 'Please fill out the form!'
  return render_template('register.html', msg=msg)
Creating Home Page
@app.route('/pythonlogin/home')
def home():
  if 'loggedin' in session:
    return render_template('home.html', username=session['username'])
  return redirect(url_for('login'))
Creating profile page
@app.route('/pythonlogin/profile')
def profile():
  if 'loggedin' in session:
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor.execute('SELECT * FROM accounts WHERE id = %s', (session['id'],))
    account = cursor.fetchone()
    return render_template('profile.html', account=account)
  return redirect(url_for('login'))
```

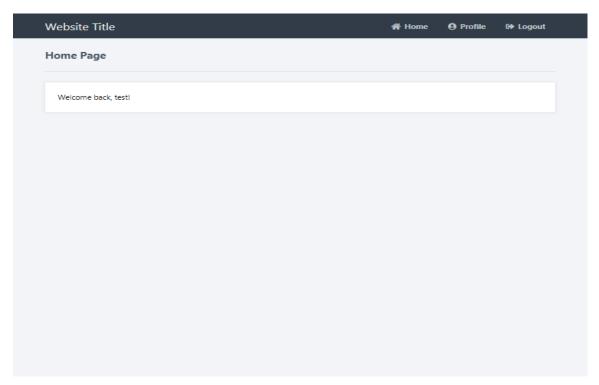
# **Login Page:**



# Register page:



# **Home Page:**



# **Profile Page:**

