

ASSIGNMENT-II

FLASK PROGRAM

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Maximum Mark	2

- 1) Write a Flask Program Which Should Display Name, Email, Phone and it Should Display the Same Once We Hit Submit.

CODE:

```
from email.mime import image
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__)

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=T
CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=
XHxCZLrUPYhyRiHW;", "", "")

@app.route('/')
@app.route('/login', methods =['GET', 'POST'])
def login():
    msg = ''
    if request.method == 'POST' and 'email' in request.form and 'password' in
request.form:
        username = request.form['email']
        password = request.form['password']
        stmt = ibm_db.exec_immediate(conn,'SELECT * FROM VIGNESH_DB WHERE email =
% s AND password = % s', (email, password, ))
        account = ibm_db.fetch_both(stmt)
        if username==password:
            session['loggedin'] = True
            session['id'] = account['id']
            session['email'] = account['email']
```

```

        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('/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 and 'roll_no' in request.form :
        roll_no = request.form['roll_no']
        username = request.form['username']
        password = request.form['password']
        cpassword = request.form['cpassword']
        email = request.form['email']
        conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30875;PROTOCOL=T
CPIP;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fxm42113;PWD=
XHxCZLrUPYhyRiHW;", "", "")
        stmt = ibm_db.exec_immediate(conn,'SELECT * FROM VIGNESH_DB')
        if email==cpassword:
            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:
            sql=ibm_db.exec_immediate(conn,'INSERT INTO VIGNESH_DB (roll_no,
username, email, password, cpassword) VALUES (%s, % s, % s, % s)')
            msg = 'You have successfully registered !'
            print("you have successfully registered!")
            return redirect(url('/login'))
        elif request.method == 'POST':
            msg = 'Please fill out the form !'
            return render_template('signup.html', msg = msg)

if __name__=='__main__':
    app.run(debug=True)

```

OUTPUT:

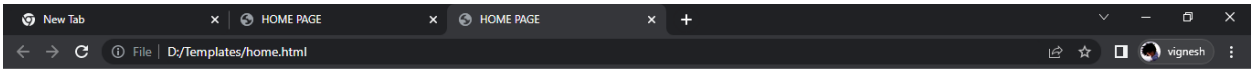
The screenshot shows a web browser window with the title 'Login Page'. The address bar displays the file path 'D:/Templates/login%20.html'. The page content is a dark green box on a light blue background. Inside the box, there is a login form with the following elements:

- User Name**: A label in green text above a white input field with the placeholder text 'Username'.
- Password**: A label in green text above a white input field with the placeholder text 'Password'.
- Log In Here**: A white button with green text, located below the password field.
- Register here**: A blue text link located below the 'Log In Here' button.

The Windows taskbar is visible at the bottom of the screen, showing the search bar, task view button, and several application icons (Edge, File Explorer, Task View, Mail, Photos, and a game icon). The system tray on the right shows the date and time as '11:44 10-11-2022'.

The screenshot displays a web browser window with the following elements:

- Browser Tabs:** New Tab, HOME PAGE, HOME PAGE, Login Form, Registration Form.
- Address Bar:** D:/Templates/Registrationform.html
- Page Title:** REGISTRATION FORM
- Form Fields:**
 - Username:** Input field with label "Username" and placeholder "User name".
 - Email:** Input field with label "Email" and placeholder "Email".
 - Password:** Input field with label "Password" and placeholder "password".
 - Confirm Password:** Input field with label "Confirm Password" and placeholder "Confirm password".
- Buttons and Links:** A "Submit" button and a "Login here" link.
- Taskbar:** Windows Start button, search bar, and various application icons (Edge, File Explorer, Task View, Mail, etc.).
- System Tray:** Desktop, 23°C, and system clock showing 11:44 on 10-11-2022.



WELCOME



Service Details - IBM Cloud | IBM Db2 on Cloud

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/cm%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F0ea7b5a3064c40bc8b70793329fe603d%3A79b56228-e3ad-41...

IBM Db2 on Cloud

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

NKZ00314.VIGNESH Back

Export to CSV

USER NAME	ROLL NO	PASSWORD	CONFIRM PASSWORD	EMAIL
VIGNESH	22	67890	67890	VIGNESH@GMAIL.COM
malar	9	12345	12345	malar@gmail.com
priya	16	67890	67890	priya@gmail.com
swetha	21	12345	12345	swetha@gmail.com

29°C Haze | 10:54 AM 10/11/2022

2) Write a Flask Program Which Should Cover Cookies, Sessions.

COOKIES:

```
from flask import request

@app.route('/')
def index():
    username = request.cookies.get('username')
    resp = make_response(render_template(...))
    resp.set_cookie('username', 'the username')
    return resp
```

SESSION :

```
@app.route('/')
def index():
    if 'username' in session:
        return f'Logged in as {session["username"]}'
    return 'You are not logged in'

@app.route('/login', methods=['GET', 'POST'])
def login():
    if request.method == 'POST':
        session['username'] = request.form['username']
        return redirect(url_for('index'))
    return ''

<form method="post">
<p><input type="text" name=username>
<p><input type="submit" value=Login>
</form>
'''

@app.route('/logout')
def logout():
    session.pop('username', None)
    return redirect(url_for('index'))
```

- 3) Write a Flask Program Which Should Display Resume Details Also have Upload Resume option by Using File Uploading.

```
<!DOCTYPE html>
<html>
  <head>
    <title>RESUME</title>
    <meta name="viewport" content="width=device-width,initial-scale=1.0">
    <link rel="stylesheet" href="style5.css">

  </head>
  <body>

    <div class="wrapper">
      <div class="inner">

        <form style="justify-content: center;">
          <center>
            <h1>
              <b>RESUME</b></h1>
            FIRST NAME
            <div class=""form-wrapper">
              <input type="text" placeholder="User name" class="form-
control">
            </div><br>
            LAST NAME
            <div class=""form-wrapper">
              <input type="text" placeholder="User name" class="form-
control">
            </div><br>
            EMAIL
            <div class=""form-wrapper">
              <input type="text" placeholder="Email" class="form-
control">
            </div><br>
            PASSWORD
            <div class="form-wrapper">
              <input type="password" placeholder="password"
class="form-control">
            </div> <br>
            PHONE NO
            <div class="form-wrapper">
```

```

        <input type="Phone no" placeholder="Phone no"
class="form-control"></div><br>
        GENDER
        <div class="form-wrapper">
        <input type="radio" placeholder="male" class="form -
control">MALE
        <input type="radio" placeholder="female" class="form-
control">FEMALE
        </div><br><br>
        <p>Click on the "Choose File" button to upload a file:</p>
        <input type="file" id="myFile" name="filename"><br><br>

        <input type="submit">

    </center>
</form>
</div>
</body>
</html>

```

RESUME

FIRST NAME
User name

LAST NAME
User name

EMAIL
Email

PASSWORD
password

PHONE NO
Phone no

GENDER
☐ MALE
 ☐ FEMALE

Click on the "Choose File" button to upload a file:

No file chosen