GANPAT UNIVERSITY
U. V. PATEL COLLEGE OF ENGINEERING
B.Tech CE/IT Semester IV
2CEIT404: Python Programming

Practical-11: Python CGI script

1) Develop Login module with CGI script having sign up and sign-in pages:

- A sign up page provide registration functionalities to register user and store user inputted data (like Email, Username and Password) into table with MySQL database.

- A sign-in page provides login functionality where user able to login by using their registration details (Username and Password). If username and password matched with database then it can redirect to welcome page otherwise it return message "login unsuccessful".

<u>Sign up page</u>

Enter Email: [   ]

Enter Username: [   ]

Enter Password: [   ]

[Sign Up] SignIn

<u>Sign-in page</u>

Username: abc

Password: •••

[Sign In]

Signup.py:

```python
import cgi,cgitb
import pymysql
cgitb.enable()
fs= cgi.FieldStorage()
email=fs.getvalue('email')
user_name=fs.getvalue('username')
passwd=fs.getvalue('password')
```

```python
con=pymysql.connect(host='localhost',user='root',passwd='',database='form')
print ("Content-type:text/html\r\n")
print ("<html>")
print ("<head><title>My CGI-Program</title></head>")
print ("<body>")
try:

    cur=con.cursor()
    cur.execute('create table if not exists person (username varchar(20)
primary key, password varchar(20),email text)')
    cur.execute('insert into person
values(%s,%s,%s)',(user_name,passwd,email))
    con.commit()
    con.close()
except Exception as e:
    print("<script>alert('Erorr
Occur');window.location.replace('http://localhost/xampp/Practical_11/signup.
html');</script>")
else:
    print("<script>alert('Data successfully
inserted');window.location.replace('http://localhost/xampp/Practical_11/sign
up.html');</script>")

print ("</body>")
print ("</html>")
```

signin.py:

```python
import cgi,cgitb
import pymysql
cgitb.enable()
fs= cgi.FieldStorage()
user_name=fs.getvalue('username')
passwd=fs.getvalue('password')
con=pymysql.connect(host='localhost',user='root',passwd='',database='form')
try:
    cur=con.cursor()
    cur.execute('select password from person where username=%s',(user_name))
    result=()
    result=cur.fetchone()
    if result:
        if passwd==result[0]:
            msg="We welcome you here"
        else:
```

```python
            msg="wrong signin credentials, Try again !!"
    else:
        msg="New user? Sign-up first !"
except Exception as e:
    msg=e
finally:
    if cur:
        cur.close()
    if con:
        con.close()
print ("Content-type:text/html\r\n")
print ("<html>")
print ("<head><title>My CGI-Program</title></head>")
print ("<body>")
print (msg)
print ("</body>")
print ("</html>")
```

signup.html:

```html
<html>
    <body>
        <form action="signup.py" method="post">
            <table>
                <tr>
                    <th>Signup </th>
                </tr>
                <tr>
                    <td>Email: </td>
                    <td><input type="text" name="email" ></td>
                </tr>
                <tr>
                    <td>Username: </td>
                    <td><input type="text" name="username"></td>
                </tr>
                <tr>
                    <td>Password: </td>
                    <td><input type="password" name="password"></td>
                </tr>
                <tr>
                    <td><input type="submit" name="submit"
value="Signup"></td>
```

```html
            <td><a href="signin.html">Sign In</a></td>
        </tr>
    </table>
</form>
</body>
</html>
```

Signin.html:

```html
<html>
    <body>
        <form action="signin.py" method="post">
            <table>
                <tr>
                    <th>SignIn</th>
                </tr>
                <tr>
                    <td>Username: </td>
                    <td><input type="text" name="username"></td>
                </tr>
                <tr>
                    <td>Password: </td>
                    <td><input type="password" name="password"></td>
                </tr>
                <tr>
                    <td><input type="submit" name="submit"
value="SignIn"></td>
                </tr>
            </table>
        </form>
    </body>
</html>
```
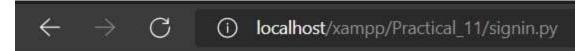
Output:

Signup

Email: vandan5980@gmail.com

Username: vandan-1

Password: •••

[Signup]   Sign In

SignIn

Username: vandan-1

Password: •••

[SignIn]

← → C ⓘ localhost/xampp/Practical_11/signin.py

We welcome you here