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>   <u>Sign-in page</u>

Enter Email: [   ]   Username: abc

Enter Username: [   ]   Password: •••

Enter Password: [   ]   [Sign In]

[Sign Up] SignIn

INPUT:

Signin.html >

```html
<html>

<body>
    <form action="C:/xampp/cgi-bin/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>
```

```html
        </tr>
        <tr>
            <td><input type="submit" name="submit" value="SignIn"></td>
        </tr>
    </table>
    </form>
</body>

</html>
```

Signup.html >

```html
<html>

<body>
    <form action="C:/xampp/cgi-bin/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>
                <td><a href="signin.html">Sign In</a></td>
            </tr>
        </table>
    </form>
</body>

</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='12345', database='guru')
```

```python
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:
            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.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')
con = pymysql.connect(host='localhost', user='root',
                    passwd='12345', database='guru')
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)')
```

```python
    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/signup.html');</s
cript>")
else:
    print("<script>alert('Data successfully
inserted');window.location.replace('http://localhost/xampp/signup.html');
</script>")
    print("</body>")
    print("</html>")
```

OUTPUT:

Signup

Email: gurupatel21@gnu.ac.in

Username: Guru Patel

Password: •••••   👁

[Signup]   Sign In

SignIn

Username: Guru Patel

Password: •••••

[SignIn]

We welcome you here