Assignment -2

Python-flask Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

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

APP.py

```python
fromsiteimportUSER_BASE

fromflaskimportFlask,render_template,url_for,request,redirectimpo

rtsqlite3assq

app=Flask(name)app.secret_

key='secret_key'@app.route

('/')

defhome():con=sql.connect('use

r_base.db')con.row_factory=sql

.Rowcur=con.cursor()cur.execut

e('select*fromuser')
```

```python
users= cur.fetchall()

con.close()

returnrender_template('index.html',users=users)

@app.route('/about')

def about():

return render_template('about.html')

@app.route('/signin')

def signin():

return render_template('signin.html')

@app.route('/signup')

def singup():

return render_template('signup.html')

@app.route('/user/<id>')

def user_page(id):

with sql.connect('user_base.db') as con: con.row_factory=sql.Row

cur =con.cursor() cur.execute(f'SELECT * FROM user WHERE email="{id}"')
user = cur.fetchall() returnrender_template("user_info.html",
user=user[0]) @app.route('/accessbackend', methods=['POST','GET'])
defaccessbackend(): ifrequest.method == "POST":

try: firstname=request.form['firstname'] lastname=request.form['lastname']
e_mail= request.form['email'] phone=request.form['phone']
password=request.form['password'] dob=request.form['dob']
withsql.connect('user_base.db') as con:

cur =con.cursor() cur.execute('INSERT INTO user (firstname, lastname,
email, phone, password, dob ) VALUES(?,?,?,?,?,?)',
(str(firstname),str(lastname),str(e_mail),str(phone),str(password),str(dob
))) con.commit() msg='u r resgistered!'
```

```python
except:con.rollback()msg='some
error'finally:print(msg)returnredirect(url_for('home'))

else:

try:tue=request.args.get('email')tup=request.args.get('password')p
rint(tue,tup)withsql.connect('user_base.db')ascon:con.row_factory=
sql.Row cur=con.cursor()cur.execute(f'SELECT passwordFROM user
WHERE email="{tue}"')user=cur.fetchall()

except:print('error')con.rollback()

finally:iflen(user) >0:



iftup==user[0][0]:returnredirect(url_for("user_page",id=tue))p
rint(user[0][0])returnredirect(url_for('signin'))
```

Login.html

```html
<!doctypehtml>
<htmllang="en">
 <head>
 <!-- Required meta tags -->
 <metacharset="utf-8">
 <metaname="viewport"content="width=device-width, initial-scale=1">
 <!-- Bootstrap CSS -->
 <linkhref="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/boot
strap.min.css"
rel="stylesheet"integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLAS
jC"crossorigin="anonymous">
 <title>Login</title>
 </head>
 <scriptsrc="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/boot
strap.bundle
.min.js"integrity
="sha384-
```

```html
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
 <body style="background-color:#B2D3C2">
 <div class="container mt-3">
 <h1 style="color: black; text-align: center;">
 Personal Expense Tracker <img src="download.jpg"
style="width:50px;height: 50px;">
 </h1>
 <div class="container mt-5" style="width: 600px;">
 <div class="card shadow-lg bg-white rounded">
 <div class="card-header" style="text-align: center;">
 <h4>Login</h4>
 </div>
 <div class="card-body">
 <form action="/login" method="POST">
 <div class="mb-3">
 <label for="email" class="form-label">Email: </label>
 <input type="email" class="form-control" name="email" id="email"
placeholder="abc@gmail.com">
 </div>
 <div class="mb-3">
 <label for="passowrd" class="form-label">Password: </label>
 <input type="password" class="form-control" name="password"
id="password"></input>
 </div>
 <button type="submit" style="background-color:#00AD83;
border-color:#00AD83; border-radius:5px;">Login</button>
 </form>
 </div>
 <div class="card-footer text-muted" style="text-align:center">
 New user? <span><a href="registration.html">Register Here</a></span>
 </div>
 </div>
 </div>
 </div>
 </body>
</html>
```

Registration.html

```html
<!doctype html>
<html lang="en">
 <head>
 <!-- Required meta tags -->
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <!-- Bootstrap CSS -->
 <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.
css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
 <title>Registration</title>
 </head>
 <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle
.min.js"
integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
 <body style="background-color:#B2D3C2">
 <div class="container mt-3">
 <h1 style="color: black; text-align: center;">
 Personal Expense Tracker <img src="download.jpg"
style="width:50px;height: 45px;">
 </h1>
 <div class="container mt-2" style="width: 600px;">
 <div class="card shadow-lg bg-white rounded">
 <div class="card-header" style="text-align: center;">
 <h4>Registration Form</h4>
 </div>
 <div class="card-body">
 <form action="/" method="POST">
 <div class="mb-3">
 <label for="email" class="form-label">Email: </label>
 <input type="email" class="form-control" name="email" id="email"
placeholder="abc@gmail.com">
 </div>
```

```html
 <div class="mb-3">
 <label for="passowrd" class="form-label">Password: </label>
 <input type="password" class="form-control" name="password"
id="password"></input>
 <p style="color: gray;" class="mt-3">Please make sure that the password
meets the following requirements:</p>
 <ol style="color: gray;"><li>Minimum of 8 characters</li><li>Contains
an upper case and a special character</li></ol>
 </div>
 <div class="mb-3">
 <label for="confirmpassword" class="form-label">Confrim Password:
</label>
 <input type="password" class="form-control" name="confirmpassword"
id="confirmpassword" placeholder="********">
 </div>
 <div class="mb-3">
 <label for="wallet" class="form-label">Initial Wallet Amount (Rs):
</label>
 <input type="number" class="form-control" name="wallet" id="wallet"
placeholder="10000.00">
 </div>
 <button type="submit" style="background-color:#00AD83;
bordercolor:#00AD83; border-radius:5px;">Register</button>
 </form>
 </div>
 <div class="card-footer text-muted" style="text-align:center">
 Already an existing user? <span><a href="login">Login Here</a></span>
 </div>
 </div>
 </div>
 </div>
 </body>
</html>
```

Outputs: