

Homework 1

Kaumudi Patil

- EC2 instance

Ubuntu:

ec2-13-58-102-41.us-east-2.compute.amazonaws.com/

USECASES:

- Login User:
 - o Incorrect username or Password
 - o Successful login
 - Display User data: Password is not displayed for security purposes
- Logged-in user :
 - o File upload
 - o Logout
- Register New User:
 - o Successfully register new user
 - o Error if username already exists: E.g. try userID = **samj**

Pages

Not secure | ec2-13-58-102-41.us-east-2.compute.amazonaws.com | Not secure | ec2-13-58-102-41.us-east-2.compute.amazonaws.com

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Login

Username

Login

New User

Login

Username

Incorrect username or password!

Login

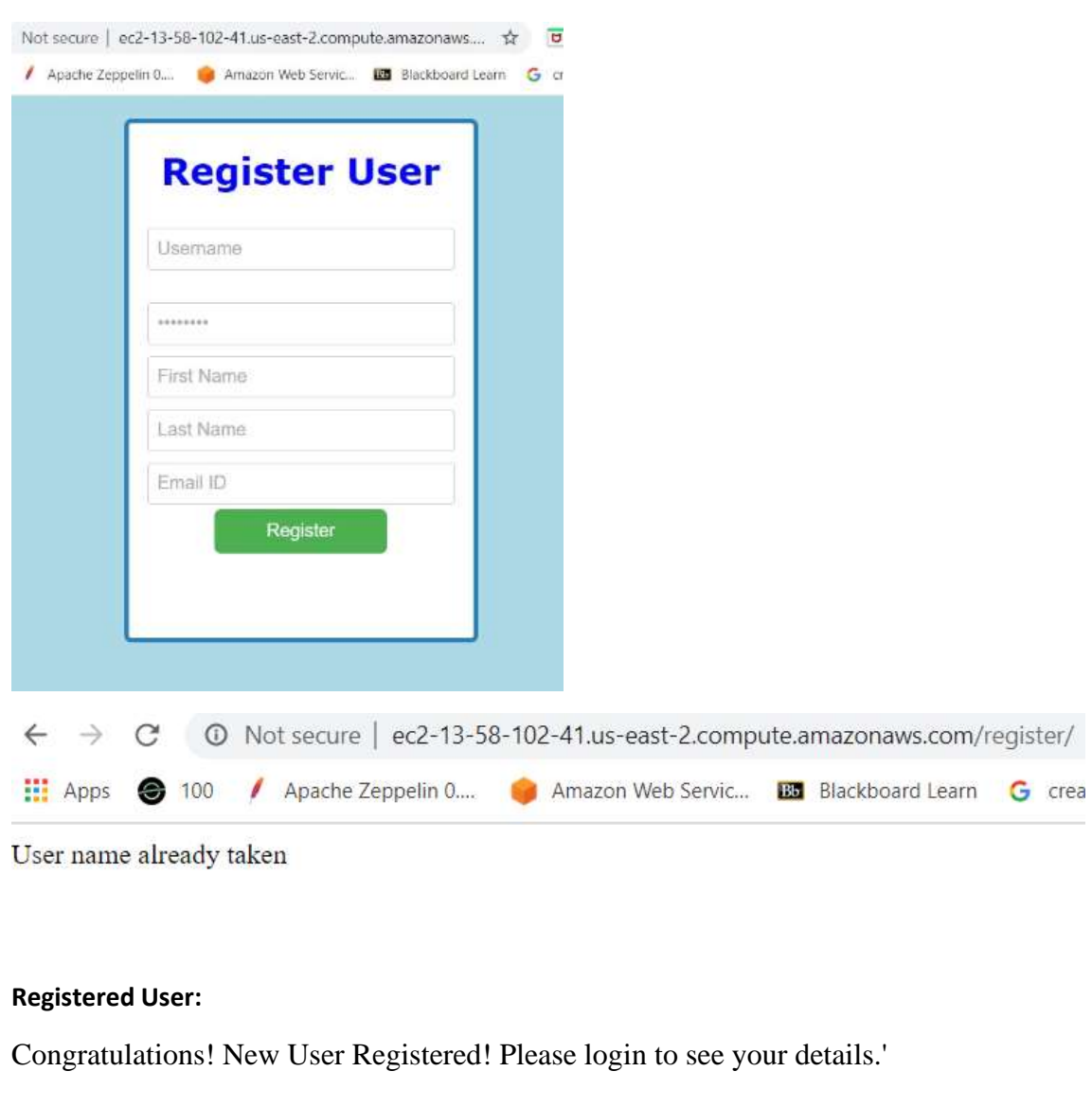
New User

Logged-In user

kaumudip Kaumudi Patil kaumudi@hello.com

File Upload Logout

User Registration



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Register User

Username

First Name

Last Name

Email ID

Register

← → ↻ ⓘ Not secure | ec2-13-58-102-41.us-east-2.compute.amazonaws.com/register/

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User name already taken

Registered User:

Congratulations! New User Registered! Please login to see your details.'

Folder Structure :

./flaskapp:

→ Flaskapp.py

→ Flaskapp.wsgi

→ ./flaskapp/templates:

○ index.html [this is actually the registration page] (Sorry! Bad naming.)

○ login.html

○ users.html

○ fileupload.html

→ /flaskapp/userfiles: User files updated for processing

→ Server restart: \$> sudo apachectl restart

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Database table

```
CREATE DATABASE user_db;
USE user_db;
mysql> CREATE TABLE reg_table(
  -> uname VARCHAR(20) NOT NULL,
  -> pword VARCHAR(20) NOT NULL,
  -> fname VARCHAR(30),
  -> lname VARCHAR(30),
  -> email VARCHAR(50),
  -> PRIMARY KEY(uname));
Query OK, 0 rows affected (0.07 sec)
```

```
ubuntu@ip-172-31-31-123:~/flaskapp$ vi flaskapp.wsgi
```

```
import sys
sys.path.insert(0, '/var/www/html/flaskapp')

from flaskapp import app as application
```

```
ubuntu@ip-172-31-31-123:~/flaskapp$ vi flaskapp.py
```

```
from flask import Flask, request, flash, redirect, url_for, session
from os import urandom
from flask import render_template
from collections import Counter
from flask_mysql import MySQL
from MySQLdb import escape_string as thwart

app = Flask(__name__)

# DB config
app.config['MYSQL_HOST'] = 'localhost'
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = 'root'
app.config['MYSQL_DB'] = 'user_db'

app.secret_key = urandom(24)

mysql = MySQL(app)

#Login page
@app.route('/', methods=['GET', 'POST'])
def login():
    msg = ''
    if request.method == 'POST':
```

```

        if request.form['btn']=="login":
            username = request.form['user']
            password = request.form['password']
            cur = mysql.connection.cursor()
            account = cur.execute("SELECT * FROM reg_table WHERE uname=%s
AND pword=%s",(username,password))
            if account:
                session['user']=username
                userdata = cur.fetchall()
                return render_template('users.html',userdata=userdata)
            else:
                msg = 'Incorrect Username or password!'
        else:
            return redirect(url_for('register'))
    return render_template('login.html', msg=msg)

#Registration page
@app.route('/register/',methods=['POST','GET'])
def register():
    if request.method == 'POST':
        userdetails = request.form
        username = userdetails['user']
        passw = userdetails['password']
        firstname = userdetails['fname']
        lastname = userdetails['lname']
        mailid = userdetails['email']
        cur = mysql.connection.cursor()
        # Check if username taken
        resultuser = cur.execute("SELECT * FROM reg_table WHERE
uname=(%s)",(thwart(username),))
        if int(resultuser) > 0:
            return 'User name already taken'
        else:
            cur.execute("INSERT INTO
reg_table(uname,pword,fname,lname,email)
VALUES(%s,%s,%s,%s,%s)",(username,passw,firstname,lastname,mailid))
            mysql.connection.commit()
            cur.close()
            return 'Congratulations! New User Registered! Please login to
see your details.'
        return render_template('index.html')

@app.route('/signout')
def signout():
    session.pop('user')
    return redirect(url_for('login'))

# Display all user data except password
@app.route('/user/')
def user():

```

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```
cur = mysql.connection.cursor()
resultdata = cur.execute('SELECT * FROM reg_table')
if resultdata > 0:
    userdata = cur.fetchall()
    return render_template('users.html',userdata=userdata)
return 'Hello from Flask!'

@app.route('/user/',methods=['POST'])
def useroperation():
    if request.method == 'POST':
        if request.form['btn'] == 'logout':
            return redirect(url_for('signout'))
        elif request.form['btn'] == "Fileupload":
            return redirect(url_for('fileupload'))
    return render_template('login.html')

@app.route('/fileupload/')
def file_upload():
    return render_template('fileupload.html')

#Count
@app.route('/countme/<input_str>')
def count_me(input_str):
    input_counter = Counter(input_str)
    response = []
    for letter, count in input_counter.most_common():
        response.append("{}": {}".format(letter, count))
    return '<br>'.join(response)

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

Html Files

login.html

```
<!DOCTYPE html>
<html><head>
<style>
h1 {
  color: blue;
  font-family: verdana;
}
body{
  font-family: 'Open Sans', sans-serif;
  background:#ADD8E6;
```

Homework 1

```
margin: 0 auto 0 auto;
width:100%;
text-align:center;
margin: 20px 0px 20px 0px;
}
.b1{
background:white;
width:300px;
border-radius:6px;
margin: 0 auto 0 auto;
padding:0px 0px 70px 0px;
border: #2980b9 4px solid;
}

.user
{
border: #ccc 1px solid;
padding: 8px;
width:250px;
color:#AAAAAA;
margin-top:10px;
font-size:1em;
border-radius:4px;
}

.button {
border: none;
color: black;
padding: 10px 10px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;
width:150px;
margin: 4px 2px;
cursor: pointer;

.button:hover {
background-color: #4CAF50; /* Green */
color: white;
}
</style>
<form method="post" action="">
<div class="b1">
<h1> Login </h1>
<title>User Login</title>
```

Homework 1

```
<input type="text" name="user" value="Username"
onblur="field_blur(this,'user');" class="user"/>
</div>

<input type="password" name="password" value="password"
onblur="field_blur(this,'user');" class="user"/>
<div class="msg">{{msg }}</div>
</div>
<button type = "submit" class="button b1" name="btn" value="login"> Login</button>
<button type = "submit" class="button b2" name="btn" value="register"> New User</button>
</div>
</div>
</form>
</head>
</html>
```

Registration Page

Index.htm

```
<!DOCTYPE html>
<!-- Registration page-->
<html><head>
<style>
h1 {
  color: blue;
  font-family: verdana;
}

body{
  font-family: 'Open Sans', sans-serif;
  background:#ADD8E6;
  margin: 0 auto 0 auto;
  width:100%;
  text-align:center;
  margin: 20px 0px 20px 0px;
}

.b1{
  background:white;
  width:300px;
  border-radius:6px;
  margin: 0 auto 0 auto;
  padding:0px 0px 70px 0px;
  border: #2980b9 4px solid;
}
```

Homework 1

```
.user
{
  border: #ccc 1px solid;
  padding: 8px;
  width:250px;
  color:#AAAAAA;
  margin-top:10px;
  font-size:1em;
  border-radius:4px;
}

.button {
  border: none;
  color: black;
  padding: 10px 10px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  width:150px;
  margin: 4px 2px;
  cursor: pointer;

.button:hover {
  background-color: #4CAF50; /* Green */
  color: white;
}
</style>

<form method="POST" action="">
<div class="b1">
<h1> Register User </h1>
<title>User Registration</title>

<input type="text" name="user" value="Username"
onblur="field_blur(this,'user');" class="user"/>
<br></br>

<input type="password" name="password" value="password"
onblur="field_blur(this,'user');" class="user"/>
<div>

<input type="text" name="fname" value="First Name"
onblur="field_blur(this,'user');" class="user"/>
<div>
</div>
<input type="text" name="lname" value="Last Name"
onblur="field_blur(this,'user');" class="user"/>
<div>
</div>
```


Homework 1

```
<input type="text" name="email" value="Email ID"
onblur="field_blur(this,'user');" class="user"/>
<div>
</div>
<button type="submit" class="button b1"> Register</button>
</div>
</div>
</form>
</head>
</html>
```

User.html

```
<html>
  <style>
h1 {
  color: blue;
  font-family: verdana;

}

body{
  font-family: 'Open Sans', sans-serif;
  background:#ADD8E6;
  margin: 0 auto 0 auto;
  width:100%;
  text-align:center;
  margin: 20px 0px 20px 0px;
}
.button {
  border: none;
  color: black;
  padding: 10px 10px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
```

Homework 1

```
font-size: 16px;
width: 150px;
margin: 4px 2px;
cursor: pointer;
```

```
.button:hover {
  background-color: #4CAF50; /* Green */
  color: white;
}
```

```
</style>
```

```
<table border =1>
```

```
  {%for user in userdata % }
```

```
<tr>
```

```
  <td>{{ user[0] }}</td>
```

```
  <td>{{ user[2] }}</td>
```

```
  <td>{{ user[3] }}</td>
```

```
  <td>{{ user[4] }}</td>
```

```
</tr>
```

```
  {% endfor % }
```

```
</table>
```

```
<form>
```

```
  <button type="submit" name="btn" class="button b2 b2" value="Fileupload" >File
  Upload</button>
```

```
  <button type="submit" class="button b1" name='btn' value="logout"> Logout</button>
```

```
</form>
```

```
</html>
```