Assignment II

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Project Name	Personel expence tracker application

LOGIN SYSTEM

```python
from flask import Flask, render_template, request, redirect, url_for, session
from flask_mysqldb
import MySQLimport MySQLdb.cursors
import re
app = Flask(__name__)

# Change this to your secret key (can be anything, it's for extra protection)
app.secret_key = 'your secret key'

# Enter your database connection details below
app.config['MYSQL_HOST'] = 'localhost'
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = ''
app.config['MYSQL_DB'] = 'pythonlogin'

# Intialize MySQL
mysql = MySQL(app)
# http://localhost:5000/pythonlogin/ - the following will be our login page, which will use both GET and POST requests
@app.route('/pythonlogin/', methods=['GET', 'POST'])
```

```python
    def login():
        # Output message if something goes wrong...
        msg = ''
        return render_template('index.html', msg='')
```

INDEX.HTML

```html
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <title>Login</title>
        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
        <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.1/css/all.css">
    </head>
    <body>
        <div class="login">
            <h1>Login</h1>
            <div class="links">
                <a href="{{ url_for('login') }}" class="active">Login</a>
                <a href="#">Register</a>
            </div>
            <form action="{{ url_for('login') }}" method="post">
                <label for="username">
```
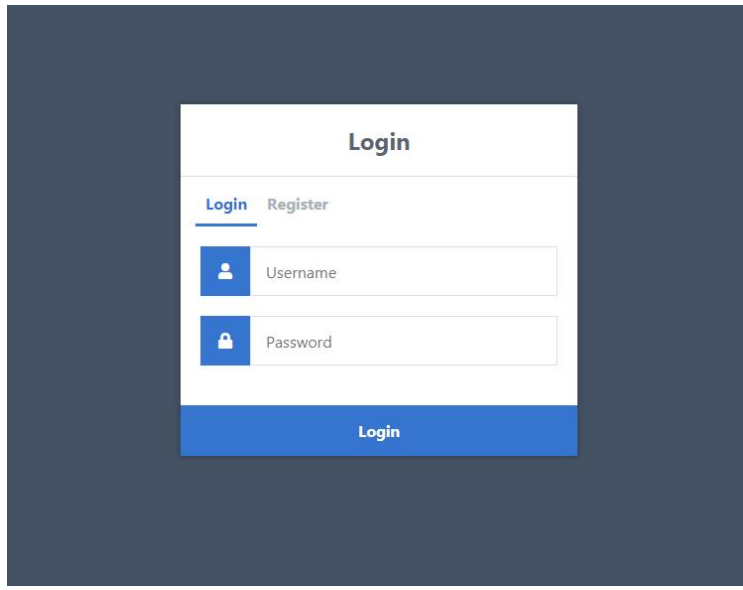
```html
                <i class="fas fa-user"></i>
            </label>
            <input type="text" name="username" placeholder="Username" id="username" required>
            <label for="password">
                <i class="fas fa-lock"></i>
            </label>
            <input type="password" name="password" placeholder="Password" id="password" required>
            <div class="msg">{{ msg }}</div>
            <input type="submit" value="Login">
        </form>
    </div>
</body>
</html>
```

LOGIN OUTPUT

REGISTER.HTML

```
        <!DOCTYPE html>
<html>
    <head>
            <meta charset="utf-8">
            <title>Register</title>
            <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
            <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.1/css/all.css">
    </head>
    <body>
            <div class="register">
                    <h1>Register</h1>
                    <div class="links">
                            <a href="{{ url_for('login') }}">Login</a>
```

```html
                    <a href="{{ url_for('register') }}" class="active">Register</a>
                </div>
                <form action="{{ url_for('register') }}" method="post" autocomplete="off">
                    <label for="username">
                        <i class="fas fa-user"></i>
                    </label>
                    <input type="text" name="username" placeholder="Username" id="username" required>
                    <label for="password">
                        <i class="fas fa-lock"></i>
                    </label>
                    <input type="password" name="password" placeholder="Password" id="password" required>
                    <label for="email">
                        <i class="fas fa-envelope"></i>
                    </label>
                    <input type="email" name="email" placeholder="Email" id="email" required>
                    <div class="msg">{{ msg }}</div>
                    <input type="submit" value="Register">
                </form>
            </div>
        </body>
</html>
```

MAIN.PY

```python
# http://localhost:5000/pythinlogin/register - this will be the registration page, we need to use both GET and POST requests
```

```python
@app.route('/pythonlogin/register', methods=['GET', 'POST'])
def register():
    # Output message if something goes wrong...
    msg = ''
    # Check if "username", "password" and "email" POST requests exist (user submitted form)
    if request.method == 'POST' and 'username' in request.form and 'password' in request.form and 'email' in request.form:
        # Create variables for easy access
        username = request.form['username']
        password = request.form['password']
        email = request.form['email']
    elif request.method == 'POST':
        # Form is empty... (no POST data)
        msg = 'Please fill out the form!'
    # Show registration form with message (if any)
    return render_template('register.html', msg=msg)
```

OUTPUT FOR REGISTRATION

Register

Login **Register**

👤 | Username

🔒 | Password

✉ | Email

You have successfully registered!

Register