

Lab 12

Django Contrib Package

This lab session covers Django Contrib Package (admin, sessions and messages). By the end of this session, students should have a very good understanding of how to use these packages.

Pre-lab Preparation:

- 1. Pages of the previous lab.
- 2. Add the necessary contrib packages in settings.py

Lab Activities:

Task 1: Create a register page with a URL '/users/register' with any necessary HTML files and view functions.

```
libraryproject > apps > usermodule > 💠 views.py > ...
       trom django.shortcuts import render, redirect
       from django.contrib.auth.forms import UserCreationForm
       from django.contrib.auth import authenticate, login
       from django.contrib.auth.forms import AuthenticationForm
       from django.contrib.auth import logout
  8
       def register_view(request):
           if request.method == 'POST':
               form = UserCreationForm(request.POST)
               if form.is_valid():
                   form.save()
 14
                   messages.success(request, 'You have successfully registered.')
                   return redirect('login')
               else:
                   messages.error(request, 'Registration failed.')
           else:
               form = UserCreationForm()
           return render(request, 'usermodule/register.html', {'form': form})
```



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```
libraryproject > apps > usermodule > templates > usermodule > ↔ register.html > � a
        {% extends "usermodule/base.html" %}
        {% block title %}Login{% endblock %}
        {% block content %}
        <h2>Register</h2>
        <form method="POST">
             {% csrf_token %}
             {{ form.as_p }}
 11
             <button type="submit">Register</button>
 12
        </form>
        ka href="{% url 'login' %}">Already have an account? Login</a>
 13
        {% endblock %}
 14
 Login
         ① 127.0.0.1:8000/users/register
         🔀 بوابة الدخول... - 🔀 بوابة الدخول... 🚺 Welcome, با MyQu تسجيل الدخول | المن... 🐧 سافنات –... 🐧 Welcome, ترجمة 🙀 MyQu 🙀
```

Login | Register

Register

Username: Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only. Password:

- · Your password can't be too similar to your other personal information.
- · Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- · Your password can't be entirely numeric.

Password confirmation: Enter the same password as before, for verification.

Register

Already have an account? Login

Task 2: Create a login page with a URL '/users/login' with any necessary HTML files and view functions.

```
libraryproject > apps > usermodule > ② views.py > ...

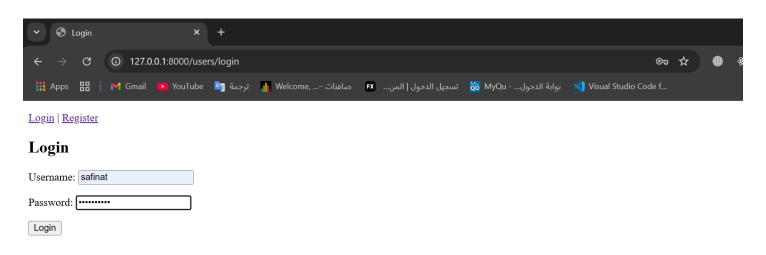
def login_view(request):
    if request.method == 'POST':
        form = AuthenticationForm(data=request.POST)
    if form.is_valid():
        user = form.get_user()
        login(request, user)
        messages.success(request, 'Login successful.')
        return redirect('list_students')
    else:
        messages.error(request, 'Invalid credentials.')
    else:
        form = AuthenticationForm()
    return render(request, 'usermodule/login.html', {'form': form})

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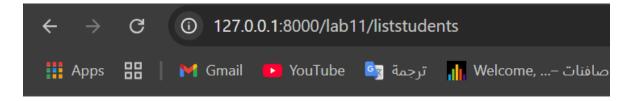


Task 3: Apply login permission to the previous lab. If the user is not logged in, redirect the user to the login page.

```
libraryproject > apps > lab11 > ♥ views.py > ♥ add_image
       from .models import Student2 ,Gallery
       from django.contrib.auth.decorators import login_required
       @login_required(login_url='/users/login')
       def list_students(request):
           students = Student.objects.all()
           return render(request, 'lab11/list_students.html', {'students': students})
       @login_required(login_url='/users/login')
 12
       def add_student(request):
           if request.method == 'POST':
               form = StudentForm(request.POST)
               if form.is_valid():
                   form.save()
                   return redirect('list_students')
           else:
               form = StudentForm()
           return render(request, 'lab11/add_student.html', {'form': form})
       @login_required(login_url='/users/login')
       def edit_student(request, id):
```



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Welcome, amal | Logout

Login successful.

Students

Add New Student

• safinat (21) - London Edit Delete

Task 4: Add a link '/users/logout' to sign out users to all pages where the user is logged in.

```
libraryproject > apps > usermodule >  urls.py > ...

from django.urls import path

from . import views

urlpatterns = [
  path('register', views.register_view, name='register'),
  path('login', views.login_view, name='login'),
  path('logout', views.logout_view, name='logout'),

path('logout', views.logout_view, name='logout'),

]
```

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```
libraryproject > apps > usermodule > templates > usermodule > ↔ base.html > ...
      k!DOCTYPE html>
      <html lang="en">
      <head>
         <meta charset="UTF-8">
         <title>{% block title %}My App{% endblock %}</title>
         {% if user.is_authenticated %}
             Welcome, {{ user.username }} | <a href="{% url 'logout' %}">Logout</a>
             <a href="{% url 'login' %}">Login</a> | <a href="{% url 'register' %}">Register</a>
         {% endif %}
         {% block content %}{% endblock %}
    34
            def logout_view(request):
    35
                  logout(request)
    36
                  messages.info(request, 'Logged out.')
    37
```

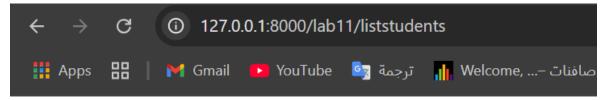
return redirect('login')



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Task 5: Provide messages to users, like, 'you have successfully registered', 'login successfully', or 'error message.'



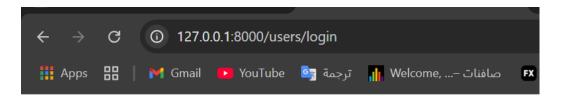
Welcome, amal | Logout

Login successful.

Students

Add New Student

• safinat (21) - London Edit Delete



Login | Register

Logged out.

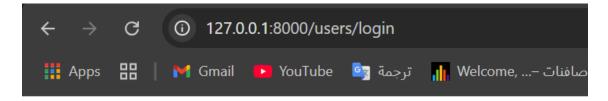
Login

Username:	
Password: [
Login	



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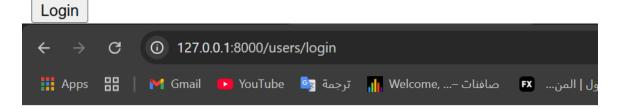
Login | Register

Invalid credentials.

Login

Username:

Password:



Login | Register

You have successfully registered.

Login

Username:

Password:

Login