

Lab 12

Django Contrib Package

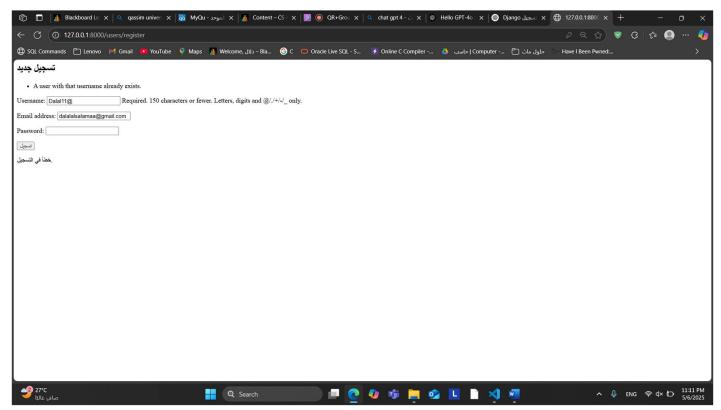
This lab session covers Django Contrib Package (admin, sessions and messages). By the end of this session, students should have a very good understanding of how to use these packages.

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.

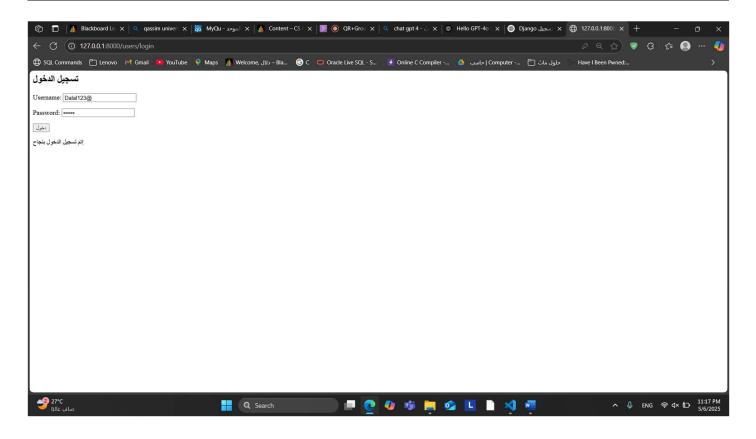


Task 2: Create a login page with a URL '/users/login' with any necessary HTML files and view functions.

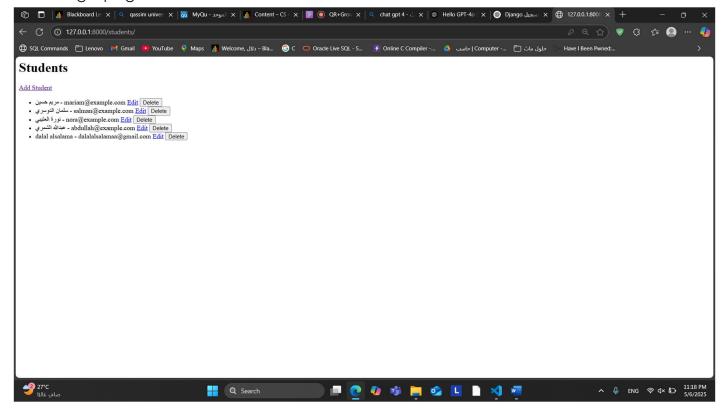


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Task 3: Apply login permission to the previous lab. If the user is not logged in, redirect the user to the login page.

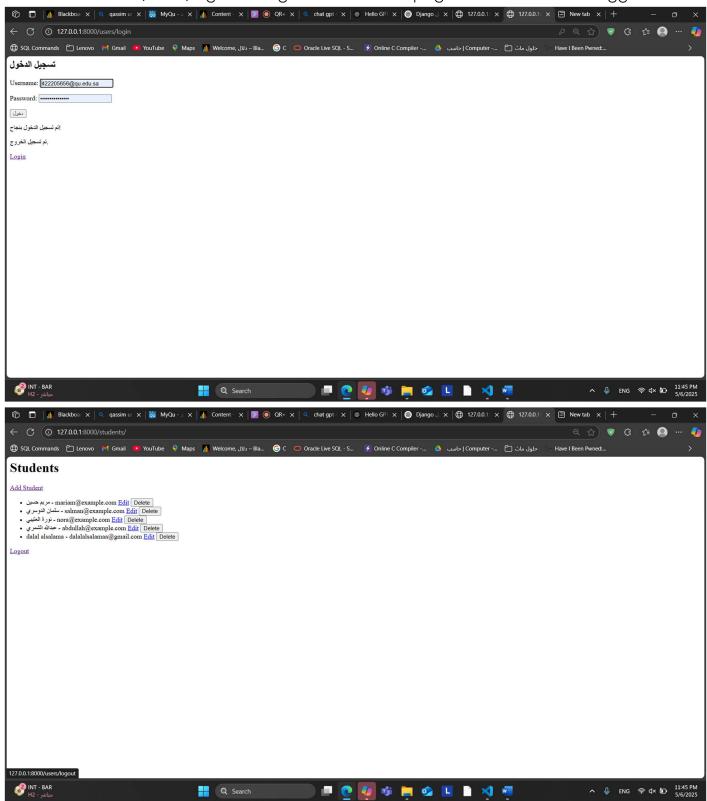




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Task 4: Add a link '/users/logout' to sign out users to all pages where the user is logged in.

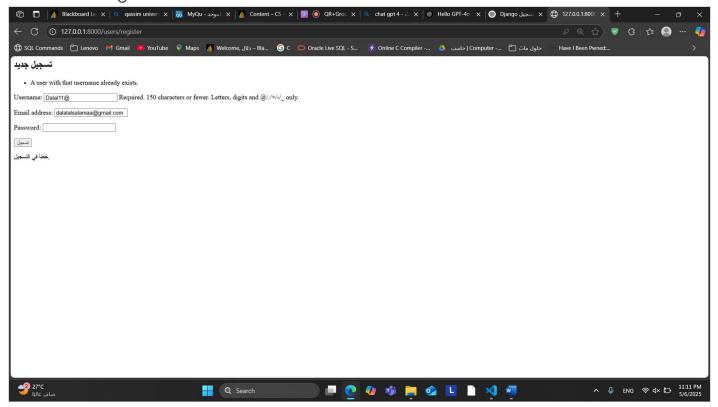


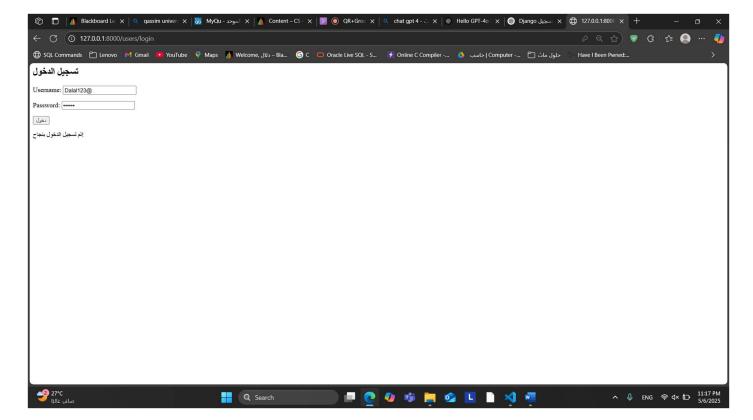


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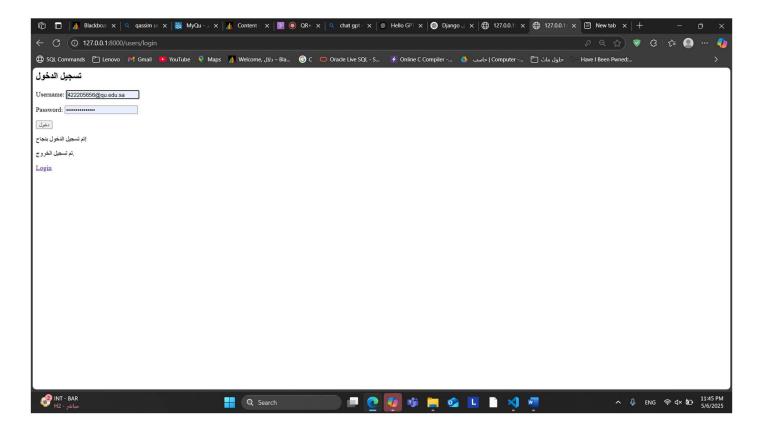
Task 5: Provide messages to users, like, 'you have successfully registered', 'login successfully', or 'error message.'







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```
from django.shortcuts import render
# Create your views here.
# users/views.py
from django.shortcuts import render, redirect
from django.contrib.auth import authenticate, login, logout
from django.contrib import messages
from django.contrib.auth.decorators import login_required
from .forms import RegisterForm
from django.contrib.auth.forms import AuthenticationForm
def register_view(request):
    if request.method == 'POST':
        form = RegisterForm(request.POST)
        if form.is_valid():
            user = form.save(commit=False)
            user.set_password(form.cleaned_data['password'])
            user.save()
            messages.success(request, 'ا!تم التسجيل بنجاح '
            return redirect('/users/login')
```

```
else:
            messages.error(request, 'لنسجيل')
    else:
        form = RegisterForm()
    return render(request, 'users/register.html', {'form': form})
def login_view(request):
    if request.method == 'POST':
        form = AuthenticationForm(request, data=request.POST)
        if form.is valid():
             user = authenticate(username=form.cleaned data['username'],
password=form.cleaned_data['password'])
            if user:
                 login(request, user)
                messages.success(request, 'جاتم تسجيل الدخول بنجاح '
                 return redirect('student_list')
            else:
                messages.error(request, 'غير صحيحة bank المرور غير صحيحة')
        else:
            messages.error(request, 'الرجاء التأكد من صحة البيانات')
    else:
        form = AuthenticationForm()
    return render(request, 'users/login.html', {'form': form})
def logout view(request):
    logout(request)
    messages.success(request, 'ا. تم تسجيل الخروج'
    return redirect('/users/login')
```

```
# users/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'),
]
```



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```
from django.shortcuts import render, redirect, get object or 404
from .models import Student, Address, Student2, Address2, Gallery
from .forms import StudentForm, AddressForm, Student2Form, Address2Form, GalleryForm
from django.contrib.auth.decorators import login required
from django.contrib.auth.decorators import login_required
@login_required
def student_list(request):
    students = Student.objects.all()
    return render(request, 'lab11/student_list.html', {'students': students})
@login_required
def student add(request):
    if request.method == 'POST':
        form = StudentForm(request.POST)
        if form.is_valid():
            student = form.save()
            address_form = AddressForm(request.POST)
            if address_form.is_valid():
                address = address form.save(commit=False)
                address.student = student # ربط العنوان بالطالب
                address.save()
```



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```
return redirect('student_list')
    else:
        form = StudentForm()
        address_form = AddressForm()
    return render(request, 'lab11/student_form.html', {'form': form, 'address_form':
address_form})
@login_required
def student update(request, pk):
    student = get object or 404(Student, pk=pk)
    if request.method == 'POST':
        form = StudentForm(request.POST, instance=student)
        if form.is valid():
            form.save()
            return redirect('student_list')
    else:
        form = StudentForm(instance=student)
    return render(request, 'lab11/student_form.html', {'form': form})
@login_required
def student_delete(request, pk):
    student = get_object_or_404(Student, pk=pk)
    if request.method == 'POST':
        student.delete()
        return redirect('student list')
    return render(request, 'lab11/student confirm delete.html', {'student': student})
@login required
def student2 list(request):
    students = Student2.objects.all()
    return render(request, 'lab11/student2_list.html', {'students': students})
@login_required
def student2 add(request):
    if request.method == 'POST':
        form = Student2Form(request.POST)
        if form.is_valid():
            student = form.save()
            address form = Address2Form(request.POST)
            if address_form.is_valid():
                address = address form.save(commit=False)
                address.students.add(student) # ربط الطالب بالعناوين
                address.save()
            return redirect('student2_list')
    else:
        form = Student2Form()
        address form = Address2Form()
```



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```
return render(request, 'lab11/student2_form.html', {'form': form, 'address_form':
address_form})
# Task 3 views (Gallery)
@login_required
def gallery add(request):
    if request.method == 'POST':
        form = GalleryForm(request.POST, request.FILES)
        if form.is valid():
            form.save()
            return redirect('gallery_list')
    else:
        form = GalleryForm()
    return render(request, 'lab11/gallery_form.html', {'form': form})
@login required
def gallery_list(request):
    galleries = Gallery.objects.all()
    return render(request, 'lab11/gallery_list.html', {'galleries': galleries})
from django.shortcuts import render, redirect
from .forms import StudentImageForm
from .models import StudentImage
@login_required
def upload image(request):
    if request.method == 'POST':
        form = StudentImageForm(request.POST, request.FILES)
        if form.is_valid():
            form.save()
            return redirect('image_list')
    else:
        form = StudentImageForm()
    return render(request, 'lab11/upload_image.html', {'form': form})
@login_required
def image_list(request):
    images = StudentImage.objects.all()
    return render(request, 'lab11/image_list.html', {'images': images})
```