

Django Login + Signup + Logout (Easy Practice Project)

Using:

- UserCreationForm → Signup
 - AuthenticationForm → Login
-

□ Step 1: Create Project

```
django-admin startproject myproject
cd myproject
python manage.py startapp accounts
```

□ Step 2: Add App in settings.py

□ myproject/settings.py

```
INSTALLED_APPS = [
    ...
    'accounts',
]
```

□ Step 3: forms.py

□ accounts/forms.py

```
from django.contrib.auth.forms import UserCreationForm
from django.contrib.auth.models import User
```

```
class SignUpForm(UserCreationForm):
```

```
    class Meta:
        model = User
        fields = ['username', 'email', 'password1', 'password2']
```

□ Django automatically handles:

- confirm password
 - password hashing
 - validation
-

□ Step 4: views.py

□ accounts/views.py

```
from django.shortcuts import render, redirect

from django.contrib.auth.forms import AuthenticationForm
from django.contrib.auth import login, logout

from .forms import SignUpForm

# HOME PAGE
def home(request):

    return render(request, 'home.html')

# SIGNUP
def signup_view(request):

    if request.method == "POST":

        form = SignUpForm(request.POST)

        if form.is_valid():

            form.save()

            return redirect('login')

    else:

        form = SignUpForm()

    return render(request, 'signup.html', {'form': form})
```

```
# LOGIN
def login_view(request):

    if request.method == "POST":

        form = AuthenticationForm(request, data=request.POST)

        if form.is_valid():

            user = form.get_user()

            login(request, user)

            return redirect('home')

    else:

        form = AuthenticationForm()

    return render(request, 'login.html', {'form': form})

# LOGOUT
def logout_view(request):

    logout(request)

    return redirect('login')
```

Step 5: accounts urls.py

```
 accounts/urls.py

from django.urls import path

from .views import home, signup_view, login_view, logout_view

urlpatterns = [

    path('', home, name='home'),

    path('signup/', signup_view, name='signup'),

    path('login/', login_view, name='login'),

    path('logout/', logout_view, name='logout'),

]
```

□ Step 6: Main urls.py

□ myproject/urls.py

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [

    path('admin/', admin.site.urls),

    path('', include('accounts.urls')),

]
```

□ Step 7: Create Templates Folder

Create:

accounts/templates/

Inside it create:

- home.html
 - signup.html
 - login.html
-

□ Step 8: home.html

□ templates/home.html

```
<h1>Home Page</h1>

<h2>
  Welcome

  {% if user.is_authenticated %}
    {{ user.username }}
  {% else %}
    Guest
  {% endif %}
</h2>

{% if user.is_authenticated %}
```

```
<a href="{% url 'logout' %}">Logout</a>
{% else %}
<a href="{% url 'login' %}">Login</a>
<br><br>
<a href="{% url 'signup' %}">Signup</a>
{% endif %}
```

□ Step 9: signup.html

```
□ templates/signup.html
<h1>Signup Page</h1>
<form method="POST">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">Signup</button>
</form>
<a href="{% url 'login' %}">Already have account?</a>
```

□ Step 10: login.html

```
□ templates/login.html
<h1>Login Page</h1>
<form method="POST">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">Login</button>
</form>
<a href="{% url 'signup' %}">Create Account</a>
```

☐ Step 11: Run Migrations

```
python manage.py migrate
```

▶☐ Step 12: Run Server

```
python manage.py runserver
```

Open:

```
http://127.0.0.1:8000/
```

☐ What You Learned

Feature	Used
Signup	UserCreationForm
Login	AuthenticationForm
Logout	logout()
Sessions	login()
User check	user.is_authenticated

☐ Most Important Lines

```
form.save()
```

Creates user automatically.

```
login(request, user)
```

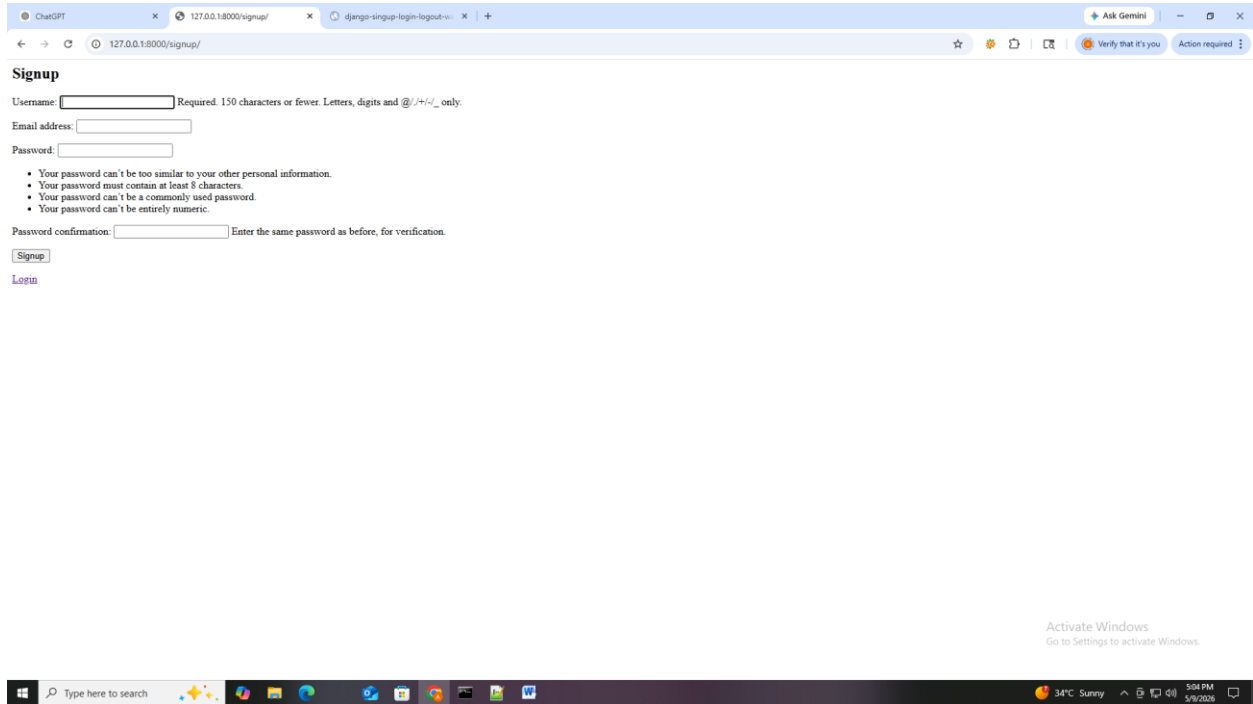
Logs user into session.

```
logout(request)
```

Removes session/logs out.

```
user.is_authenticated
```

Checks login status.



Login

Username:

Password:

[Signup](#)

Activate Windows
Go to Settings to activate Windows.