



DJANGO LOGIN APP :

- Create a new folder open it with VS Code
- Create environment – `python -m venv env_name`
- Activate the environment - `source env_name/Scripts/activate`
- Install Django - Pip install Django
- Create project folder - `Django-admin startproject login_app`
- Cd login_app
- Creating an additional application – `python manage.py startapp accounts (app name)`
- Settings.py – installed apps add ('accounts.apps.AccountsConfig',)

```
INSTALLED_APPS = [
    ...
    'accounts.apps.AccountsConfig',
    'django.contrib.auth', # Already included for authentication
    'django.contrib.sessions', # Already included for session management
]
```

- Create folders in main app (login_app) – templates & static
- Settings.py – templets list add - 'DIRS': [BASE_DIR/'templates'],
- Add this out side of templates

```
STATIC_URL = '/static/'
STATICFILES_DIRS = [BASE_DIR / 'static']
import os
STATIC_ROOT = BASE_DIR / 'staticfiles'
```

- Create 3 html files in templates – base,login,home.html's
- Add commands in the file's

- home.html

```
{% extends 'base.html' %}
{% block content %}
<h2>Welcome, {{ user.username }}!</h2>
<a href="{% url 'logout' %}">Logout</a>
{% endblock %}
```

- Login.html

```
{% extends 'base.html' %}
{% block content %}
<h2>Login</h2>
<form method="post">
    {% csrf_token %}
    <label>Username:</label>
    <input type="text" name="username" required><br>
    <label>Password:</label>
    <input type="password" name="password" required><br>
    <button type="submit">Login</button>
</form>
{% if error %}
<p style="color:red;">{{ error }}</p>
```



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```
{% endif %}
{% endblock %}
```

- Base.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Login App</title>
</head>
<body>
  {% block content %}
  {% endblock %}
</body>
</html>
```

- Change the urls.py – it links to accounts that we've created
from django.contrib import admin
from django.urls import path, include

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('accounts.urls')), # Include app URLs
]
```

- Create urls.py in accounts – add

```
from django.urls import path
from . import views

urlpatterns = [
    path('', views.home, name='home'),
    path('login/', views.login_view, name='login'),
    path('logout/', views.logout_view, name='logout'),
]
```

- Change views.py to
from django.shortcuts import render, redirect
from django.contrib.auth import authenticate, login, logout
from django.contrib import messages

```
def home(request):
    if not request.user.is_authenticated:
        return redirect('login')
    return render(request, 'home.html')

def login_view(request):
    if request.method == 'POST':
        username = request.POST['username']
        password = request.POST['password']
```



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```
user = authenticate(request, username=username, password=password)
if user is not None:
    login(request, user)
    return redirect('home')
else:
    messages.error(request, 'Invalid username or password.')
    return render(request, 'login.html', {'error': 'Invalid username or password.'})
return render(request, 'login.html')
```

```
def logout_view(request):
    logout(request)
    return redirect('login')
```

- Python manage.py makemigrations
- Python manage.py migrate
- create a superuser – python manage.py createsuperuser (fill the credentials)
- Python manage.py runserver

Outputs :

