

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

