

**Implement the functionality of Login and Logout in the Blog project.**

**views.py**

**from django.shortcuts import render, redirect**

**from django.contrib.auth import authenticate, login, logout**

**from django.contrib.auth.decorators import login\_required**

**from .models import Task # or whatever your “blog item” model is called**

**def login\_view(request):**

**if request.method == "POST":**

**username = request.POST.get('username')**

**password = request.POST.get('password')**

**user = authenticate(request, username=username, password=password)**

**if user is not None:**

**login(request, user) # sets session**

**return redirect('dashboard') # go to dashboard**

**else:**

**return render(request, 'login.html', {  
    'error': "Invalid username or password"  
})**

**return render(request, 'login.html')**

**@login\_required(login\_url='login')**

**def dashboard(request):**

**# only show tasks authored by the logged-in user**

**tasks = Task.objects.filter(user=request.user)**

**return render(request, 'dashboard.html', {  
    'tasks': tasks**

**})**

```
@login_required(login_url='login')

def logout_view(request):

    logout(request)    # clears session

    return redirect('login')
```

---

## 2. urls.py

```
from django.urls import path

from . import views

urlpatterns = [

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

    path('dashboard/', views.dashboard, name='dashboard'),

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

]
```

---

## 3. Templates

templates/login.html

```
<!DOCTYPE html>

<html>

<head><title>Login</title></head>

<body>

    <h1>Login</h1>

    {% if error %}

        <p style="color:red">{{ error }}</p>

    {% endif %}

    <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>

</body>

</html>

templates/dashboard.html

html

<!DOCTYPE html>

<html>

<head><title>Dashboard</title></head>

<body>

<h1>Welcome, {{ request.user.username }}!</h1>

<a href="{% url 'logout' %}">Logout</a>

<h2>Your Tasks</h2>

<ul>

{% for task in tasks %}

<li>{{ task.title }} – {{ task.description }}</li>

{% empty %}

<li>No tasks found.</li>

{% endfor %}

</ul>

</body>

</html>

---

#### 4. Notes & Setup

##### 1. Session & Middleware

Make sure in settings.py you have:

python

CopyEdit

```
MIDDLEWARE = [  
    'django.contrib.sessions.middleware.SessionMiddleware',  
    'django.contrib.auth.middleware.AuthenticationMiddleware',  
    # ...  
]
```

##### 2. Login URL

If you'd rather use a different login path, set in settings.py

```
LOGIN_URL = 'login' # matches the name='login' in urls.py
```

##### 3. Model Relationship

Your Task (or Blog post) model should have a ForeignKey to the user, e.

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

```
class Task(models.Model):
```

```
    user = models.ForeignKey(User, on_delete=models.CASCADE)
```

```
    title = models.CharField(max_length=200)
```

```
    description = models.TextField()
```

```
    # ...
```