#### **Django MVC Login & Registration (No Database)**

### # Step 1: Install Python & Django

Install Python from https://www.python.org/downloads/ and check "Add to PATH".

Install Django using: pip install django

# Step 2: Create a Django Project
django-admin startproject myproject
cd myproject
python manage.py runserver

# Step 3: Create a Django App python manage.py startapp myapp

# Step 4: Define URL Routes
Edit myproject/urls.py:
from django.contrib import admin
from django.urls import path
from myapp import views

urlpatterns = [
 path('admin/', admin.site.urls),
 path(", views.home, name='home'),
 path('register/', views.register, name='register'),
 path('login/', views.login\_view, name='login'),
 path('logout/', views.logout\_view, name='logout'),

```
# Step 5: Create Views (Controller in MVC)
Edit myapp/views.py:
 from django.shortcuts import render, redirect
 users = {}
 def home(request):
    user = request.session.get('user')
    return render(request, 'home.html', {'user': user})
 def register(request):
    if request.method == "POST":
      username = request.POST.get('username')
      password = request.POST.get('password')
      if username in users:
        return render(request, 'register.html', {'error': 'User exists!'})
      users[username] = password
      request.session['user'] = username
      return redirect('home')
    return render(request, 'register.html')
 def login_view(request):
    if request.method == "POST":
      username = request.POST.get('username')
      password = request.POST.get('password')
      if users.get(username) == password:
        request.session['user'] = username
        return redirect('home')
```

```
return render(request, 'login.html', {'error': 'Invalid
credentials!'})
    return render(request, 'login.html')
 def logout_view(request):
   request.session.flush()
   return redirect('home')
# Step 6: Create HTML Templates
Inside myapp/templates, create:
home.html:
 <!DOCTYPE html>
 <html>
 <head><title>Home</title></head>
 <body>
   <h1>Welcome</h1>
    {% if user %}
      Logged in as <strong>{{ user }}</strong>
      <a href="{% url 'logout' %}">Logout</a>
   {% else %}
      <a href="{% url 'login' %}">Login</a> |
      <a href="{% url 'register' %}">Register</a>
    {% endif %}
 </body>
```

# Step 7: Run Migrations (Fix Session Error) python manage.py migrate

</html>

# # Step 8: Run the Server python manage.py runserver

### # Done!

## Try accessing:

- Home: http://127.0.0.1:8000/

- Register: http://127.0.0.1:8000/register/

- Login: http://127.0.0.1:8000/login/