

Create the Django Project

```
django-admin startproject mysite
```

Move into the project folder:

```
cd mysite
```

Create the Blog App

```
python manage.py startapp blog
```

blog/models.py file:-

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

class Post (models.Model):
    user=models.ForeignKey (User, on_delete=models.CASCADE)
    title=models.CharField (max_length=200)
    content=models.TextField()
    created_at= models.DateTimeField(auto_now_add=True)

    def __str__(self):
        return self.title
```

blog/forms.py file :-

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

class PostForm (forms.ModelForm):
    class Meta:
        model=Post
        fields=['title','content']

class SignUpForm(UserCreationForm):
```

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

blog/views.py file code:-

```
from django.shortcuts import render, redirect, get_object_or_404
from .models import Post
from .forms import PostForm, SignUpForm
from django.contrib.auth.decorators import login_required

def signup(request):
    if request.method == "POST":
        form=SignUpForm(request.POST)
        if form .is_valid():
            form.save()
            return redirect('login')

    else:
        form=SignUpForm()

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

def post_list(request):
    posts=Post.objects.all().order_by('-created_at')
    return render(request, 'blog/post_list.html', {'posts':posts})

@login_required
def post_create(request):
    if request.method == "POST":
        form = PostForm(request.POST)
        if form.is_valid():
            post = form.save(commit=False)
            post.user = request.user
            post.save()
            return redirect('post_list')
    else:
        form = PostForm()

    return render(
```

```

        request,
        'blog/post_form.html',
        {'form': form}
    )

@login_required
def post_update(request, id):
    post = get_object_or_404(
        Post,
        id=id,
        user=request.user
    )

    form = PostForm(
        request.POST or None,
        instance=post
    )

    if request.method == "POST" and form.is_valid():
        form.save()
        return redirect('post_list')

    return render(
        request,
        'blog/post_form.html',
        {'form': form}
    )

@login_required
def post_delete(request, id):
    post = get_object_or_404(
        Post,
        id=id,
        user=request.user
    )

    if request.method == "POST":
        post.delete()
        return redirect('post_list')

    return render(
        request,
        'blog/post_delete.html',

```

```
        {'post': post}
    )
```

blog/urls.py file code:-

```
from django.urls import path
from django.contrib.auth import views as auth_views
from . import views

urlpatterns=[
    path('', views.post_list, name='post_list'),

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

    path('login/',
auth_views.LoginView.as_view(template_name='blog/login.html'), name='login'),
    path('logout/', auth_views.LogoutView.as_view(), name='logout'),

    path('create/', views.post_create, name='post_create'),
    path('update/<int:id>', views.post_update, name='post_update'),
    path('delete/<int:id>', views.post_delete, name='post_delete'),

]
```

Project folder mysite/urls.py file code:-

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

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('blog.urls')),

]
```

mysite/settings.py file :-

```
LOGIN_REDIRECT_URL="/"
LOGOUT_REDIRECT_URL="/login"
```

blog/templates/blog/signup.html

file code:-

```
<h1>Signup</h1>
<form method="post">
  {% csrf_token %}
  {{ form.as_p }}
  <button type="submit">Register</button>
</form>
<a href="{% url 'login' %}">Login</a>
```

blog/templates/blog/login.html

file code:-

```
<h1>Login</h1>
<form method="post">
  {% csrf_token %}
  {{ form.as_p }}
  <button type="submit">Login</button>
</form>
```

blog/templates/post_list.html

code:-

```
<h1> Posts </h1>

<!-- Login / Logout using POST -->
{% if user.is_authenticated %}
  <form method="post" action="{% url 'logout' %}">
    {% csrf_token %}
    <button type="submit">Logout</button>
  </form>
{% else %}
  <form method="post" action="{% url 'login' %}">
```

```

    {% csrf_token %}
    <button type="submit">Login</button>
  </form>
{% endif %}
{% for post in posts %}
<div>

    <h2> {{ post.title }} </h2>
    <p> {{post.content}}</p>
{% if post.user == user %}
    <a href="{% url 'post_update' post.id %}">Edit</a>
    <a href="{% url 'post_delete' post.id %}">Delete</a>
{% endif %}
</div>
{% endfor %}

```

blog/templates/post_form.html
file code:-

```

<h1>Post Form</h1>
<form method="post">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">Save</button>
</form>

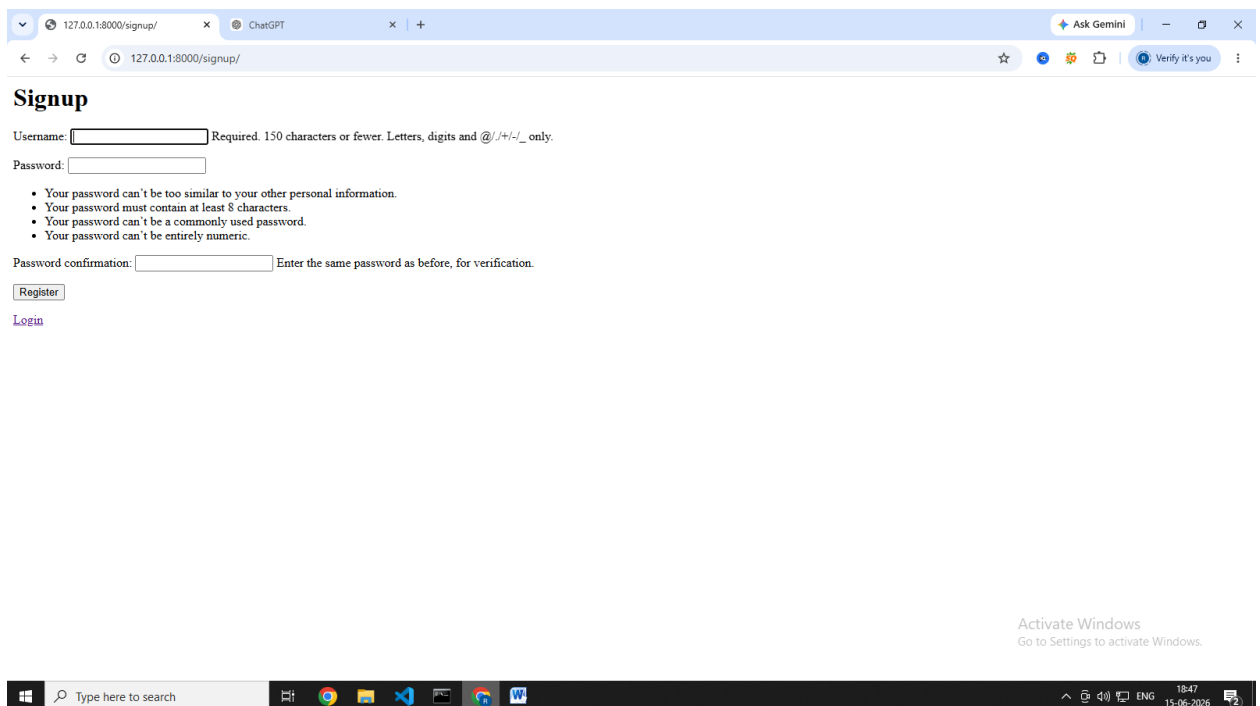
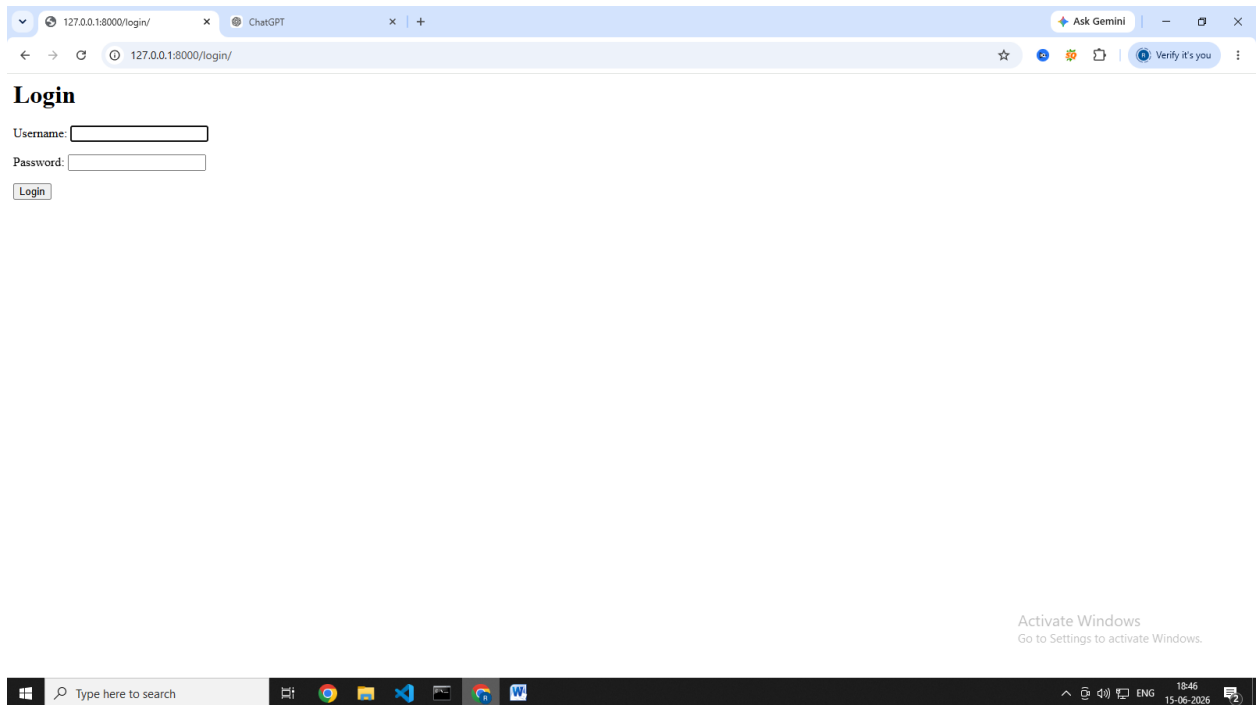
```

blog/templates/post_delte.html
file code:-

```

<h1>Delete Post</h1>
<p>{{ post.title }}</p>
<form method="post">
    {% csrf_token %}
    <button type="submit">Confirm Delete</button>
</form>

```



After Login:-

