

Blog Application:

```
# Windows
> cd onedrive\desktop\code
> mkdir blog
> cd blog
> python -m venv .venv
> .venv\Scripts\Activate.ps1
(.venv) > python -m pip install django~=4.0.0
(.venv) > django-admin startproject django_project .
(.venv) > python manage.py startapp blog
(.venv) > python manage.py migrate
```

To ensure Django knows about our new app, open your text editor and add the new app to `INSTALLED_APPS` in the `django_project/settings.py` file:

```
# django_project/settings.py
INSTALLED_APPS = [
    "django.contrib.admin",
    "django.contrib.auth",
    "django.contrib.contenttypes",
    "django.contrib.sessions",
    "django.contrib.messages",
    "django.contrib.staticfiles",
    "blog.apps.BlogConfig", # new
]
```

opening the `blog/models.py` file and entering the code below:

```
# blog/models.py
from django.db import models
from django.urls import reverse

class Post(models.Model):
    title = models.CharField(max_length=200)
    author = models.ForeignKey(
        "auth.User",
        on_delete=models.CASCADE,
    )
    body = models.TextField()

    def __str__(self):
        return self.title

    def get_absolute_url(self):
        return reverse("post_detail", kwargs={"pk": self.pk})
```

Get\_absolute\_url:

[https://docs.djangoproject.com/en/4.0/ref/models/instances/#django.db.models.Model.get\\_absolute\\_url](https://docs.djangoproject.com/en/4.0/ref/models/instances/#django.db.models.Model.get_absolute_url)

Stop the server with Control+c. two-step process can be completed with the commands below:

---

```
(.venv) > python manage.py makemigrations blog
(.venv) > python manage.py migrate
```

Create super user:

```
(.venv) > python manage.py createsuperuser
Username (leave blank to use 'wsv'): wsv
Email:
Password:
Password (again):
Superuser created successfully.
```

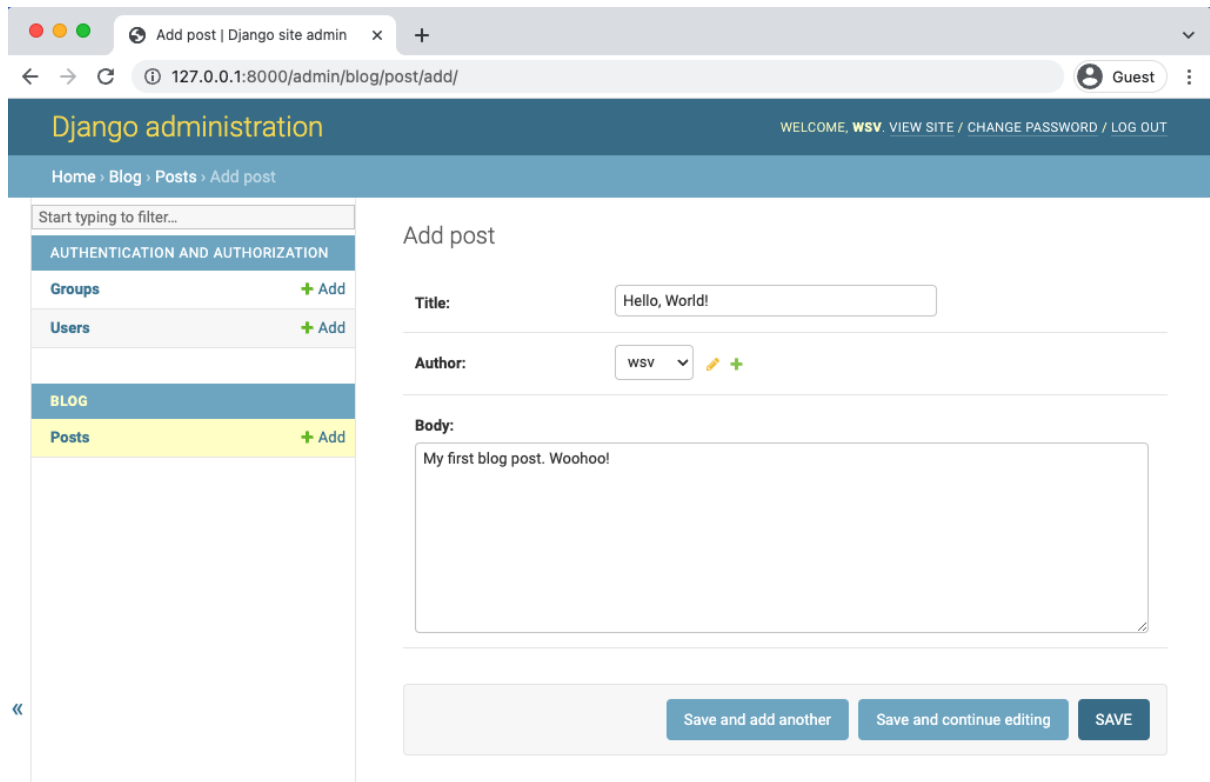
---

update blog/admin.py

```
# blog/admin.py
from django.contrib import admin
from .models import Post

admin.site.register(Post)
```

If you launch the server, and login as admin/super user, you will see:



Browser: Add post | Django site admin x +  
127.0.0.1:8000/admin/blog/post/add/ Guest

Django administration WELCOME, wsv VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Blog > Posts > Add post

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

- Groups + Add
- Users + Add

BLOG

- Posts + Add

✓ The post "Hello, World!" was added successfully. You may add another post below.

### Add post

Title: Goals today

Author: wsv ✎ +

Body: Learn Django and build a blog application.

Save and add another Save and continue editing SAVE

Browser: Select post to change | Django x +  
127.0.0.1:8000/admin/blog/post/ Guest

Django administration WELCOME, wsv VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Blog > Posts

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

- Groups + Add
- Users + Add

BLOG

- Posts + Add

✓ The post "Goals today" was added successfully.

### Select post to change

ADD POST +

Action: [v] Go 0 of 2 selected

- ☐ POST
- ☐ Goals today
- ☐ Hello, World!

2 posts

Build 'urls'

```
# blog/urls.py
from django.urls import path
from .views import BlogListView

urlpatterns = [
    path("", BlogListView.as_view(), name="home"),
]
```

---

```
# django_project/urls.py
from django.contrib import admin
from django.urls import path, include # new

urlpatterns = [
    path("admin/", admin.site.urls),
    path("", include("blog.urls")), # new
]
```

Build views:

```
# blog/views.py
from django.views.generic import ListView
from .models import Post

class BlogListView(ListView):
    model = Post
    template_name = "home.html"
```

Build project level 'templates' folder:

---

```
# django_project/settings.py
TEMPLATES = [
    {
        ...
        "DIRS": [BASE_DIR / "templates"], # new
        ...
    },
]
```

---

Put 'base.html' in the above folder:

```
<!-- templates/base.html -->
<html>
  <head>
    <title>Django blog</title>
  </head>
  <body>
    <header>
      <h1><a href="{% url 'home' %}">Django blog</a></h1>
    </header>
    <div>
      {% block content %}
      {% endblock content %}
    </div>
  </body>
</html>
```

Build app level template folder and create 'home.html' inside:

```
{% extends "base.html" %}

{% block content %}
{% for post in post_list %}
    <div class="post-entry">
        <h2><a href="">{{ post.title }}</a></h2>
        <p>{{ post.body }}</p>
    </div>
{% endfor %}
{% endblock content %}
```

Create project 'static' folder:

```
# django_project/settings.py
STATIC_URL = "/static/"
STATICFILES_DIRS = [BASE_DIR / "static"] # new
```

Create 'css' folder inside 'static' and then create 'base.css' inside 'css':

```
/* static/css/base.css */
header h1 a {
    color: red;
}
```

Inside 'base.html', please put below code:

Build view:

```
# blog/views.py
from django.views.generic import ListView, DetailView # new
from .models import Post

class BlogListView(ListView):
    model = Post
    template_name = "home.html"

class BlogDetailView(DetailView): # new
    model = Post
    template_name = "post_detail.html"
```

---

A mistake here: please change “post\_detail.html” to “blog/post\_detail.html”

put below code into ‘post\_detail.html’

```
{% extends "base.html" %}

{% block content %}
<div class="post-entry">
    <h2>{{ post.title }}</h2>
    <p>{{ post.body }}</p>
</div>
{% endblock content %}
```

---

Update blog’s urls:



---

```
# blog/urls.py
from django.urls import path
from .views import BlogListView, BlogDetailView # new

urlpatterns = [
    path("post/<int:pk>/", BlogDetailView.as_view(), name="post_detail"), # new
    path("", BlogListView.as_view(), name="home"),
]
```

---