



# Blogging Platform using Django

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foundation to build upon. In this article, we will explore the process of building a blogging platform using Django, covering key concepts and steps along the way.

## Blogging Platform using Django

A blogging platform using Django is a web application built with the Django framework that allows users to create, publish, and manage blog posts on a website, providing a user-friendly content management system for bloggers.

### Setting Up the Project Folder

```
django-admin startproject <project_name>
cd <project_name>
python manage.py startapp gallery
```

**model.py:** Here we have created a Product table with name, description, image, created\_at, and updated\_at fields in the table.

#### Python

```
1 from django.db import models
2
3 class Product(models.Model):
4     name = models.CharField(max_length=255)
5     description = models.TextField()
6     image = models.ImageField(upload_to='products/')
7     created_at = models.DateTimeField(auto_now_add=True)
8     updated_at = models.DateTimeField(auto_now=True)
9
10     def __str__(self):
```

```

        return self.name
12
13     def edit(self, name, description, image):
14         self.name = name
15         self.description = description
16         self.image = image
17         self.save()
18
19
20     def short_description(self):
21         # Split the description into words
22         words = self.description.split()
23         if len(words) > 50:
24             # Join the first 50 words and add "..." at the
end
25             return ' '.join(words[:30]) + '...'
26         else:
27             # If the description is already less than 50
words, return it as is
28             return self.description

```

**admin.py:** Here we are registering our table in the admin.

### Python

```

1  from django.contrib import admin
2  from .models import Product
3
4  # Register your models here.
5  admin.site.register(Product)

```

**views.py:** Here's a brief explanation of each part:

- `product_list(request)`: This view retrieves a list of all products from the database using the Product model and renders a template named 'index.html', passing the list of products to the template.
- `product_detail(request, pk)`: This view retrieves a specific product by its primary key (pk) from the database and renders a template named 'index2.html', passing the product data to the template.

- `edit_product(request, pk)`: This view handles editing a product. It retrieves the product to edit, processes a submitted form to update the product's information, and redirects to the product list if the form is valid. Otherwise, it displays the form for editing.
- `delete_product(request, pk)`: Similar to the edit view, this view handles product deletion. If a POST request is made, it deletes the product and redirects to the product list. Otherwise, it displays a confirmation page for deleting the product.

## Python

```
1 from django.shortcuts import render
2 from .models import Product
3 from django.http import HttpResponse
4 from django.shortcuts import render, redirect,
  get_object_or_404
5 from .models import Product
6 from .forms import ProductForm
7
8
9 def product_list(request):
10     products = Product.objects.all()
11     return render(request, 'myapp/index.html',
12                   {'products': products})
13
14 def product_detail(request, pk):
15     product = Product.objects.get(pk=pk)
16     return render(request, 'myapp/index2.html',
17                   {'product': product})
18
19 def edit_product(request, pk):
20     product = get_object_or_404(Product, pk=pk)
21     if request.method == 'POST':
22         form = ProductForm(request.POST, instance=product)
23         if form.is_valid():
24             form.save()
25             return redirect('product_list')
26     else:
27         form = ProductForm(instance=product)
```

```
        return render(request, 'myapp/edit.html', {'form':
form})
28
29 def delete_product(request, pk):
30     product = get_object_or_404(Product, pk=pk)
31     if request.method == 'POST':
32         product.delete()
33         return redirect('product_list')
34     return render(request, 'myapp/delete.html',
{'product': product})
35
36
37 def home(request):
38     return HttpResponse('Hello, World!')
```

**form.py:** Here we created a form to edit the blog when a user requests.

### Python

```
1 from django import forms
2 from .models import Product
3
4 class ProductForm(forms.ModelForm):
5     class Meta:
6         model = Product
7         fields = ['name', 'description', 'image']
```

## Image Gallery GUI

In the product list template, it loops through the products queryset and displays each product's name, description, and an image. The blog detail template shows detailed information about each blog and provides a link to go back to the blog home page.

**edit.html:** HTML file to edit the Blog.

### HTML

```
1 <h2>Edit Blog Post</h2>
```

```

▶      <form method="post">
3          {% csrf_token %}
4          {{ form.as_p }}
5          <button type="submit">Save Changes</button>
6      </form>

```

**delete.html:** HTML file to delete the Blog.

### HTML

```

📄
▶ 1  <h2>Delete Blog Post</h2>
2  <p>Are you sure you want to delete "{{ product.name }}"?</p>
3  <form method="post">
4      {% csrf_token %}
5      <button type="submit">Yes, Delete</button>
6  </form>

```

**index.html:** HTML file to show all the list of the Blog.

### Python

```

📄
▶ 1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width,
6      initial-scale=1.0">
7      <title>Blog Website</title>
8      <!-- Add Bootstrap CSS link here -->
9      <link rel="stylesheet"
10      href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bo
11      otstrap.min.css">
12  </head>
13  <body>
14      <div class="container mt-5">
15          <h1>Today's New Blogs</h1>
16          <div class="row">
17              {% for product in products %}
18                  <div class="col-md-4 mb-4">
19                      <div class="card">

```

```

        <a href="{% url 'product_detail'
product.pk %}">
18         
19         </a>
20         <div class="card-body">
21             <h5 class="card-title">{{
product.name }}</h5>
22             <p class="card-text">{{
product.short_description }}</p>
23             <a href="{% url 'edit_product'
product.pk %}">Edit</a>
24             <a href="{% url 'delete_product'
product.pk %}">Delete</a> <br>
25             <small class="card-text">Created
at: {{ product.created_at }}</small> <br>
26             <small class="card-text">Updated
at: {{ product.updated_at }}</small>
27         </div>
28     </div>
29 </div>
30 {% endfor %}
31 </div>
32 </div>
33
34     <!-- Add Bootstrap JS and jQuery scripts here (if
needed) -->
35     <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jque
ry.min.js"></script>
36     <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0
/umd/popper.min.js"></script>
37     <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/boot
strap.min.js"></script>
38 </body>
39 </html>

```

**index2.html:** HTML file to show the full details of the Blog.

Python



```
1 <!DOCTYPE html>
```

```

1 <html lang="en">
2 <head>
3     <meta charset="UTF-8">
4     <title>{{ product.name }} - Blog Detail</title>
5 </head>
6 <body>
7     <h1>{{ product.name }} - Blog </h1>
8
9     <div>
10         
11     </div>
12     <h2>{{ product.name }}</h2>
13     <p>{{ product.description }}</p>
14     <a href="{% url 'edit_product' product.pk %}">Edit</a>
15     <a href="{% url 'delete_product' product.pk
%}">Delete</a> <br>
16
17     <a href="{% url 'product_list' %}">Back to Blogs Home
Page</a>
18 </body>
19 </html>

```

**urls.py:** Define the URL patterns in the urls.py file of the catalog app to map views to URLs.

### Python

```

1 from django.urls import path
2 from . import views
3
4 urlpatterns = [
5     path('/home', views.home, name='home'),
6     path('', views.product_list, name='product_list'),
7     path('<int:pk>/', views.product_detail,
name='product_detail'),
8     path('<int:pk>/edit/', views.edit_product,
name='edit_product'),
9     path('<int:pk>/delete/', views.delete_product,
name='delete_product'),
10 ]

```

**urls.py:** Add the necessary URL patterns in your project's urls.py.

### Python

```
1 from django.contrib import admin
2 from django.urls import path, include
3
4 urlpatterns = [
5     path('admin/', admin.site.urls),
6     path('', include('gallery.urls')),
7 ]
```

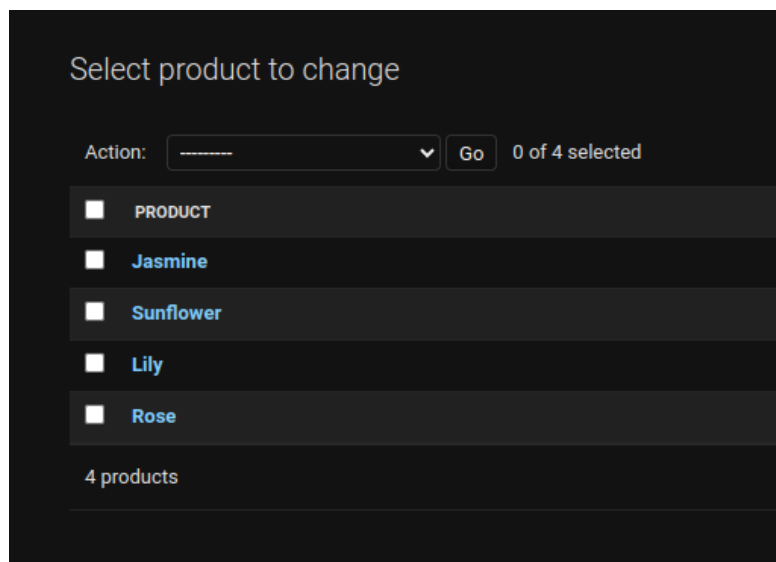
Building a blogging platform is a great project for learning Django. If you're looking to take your Django skills to the next level, consider the [Django Web Development Course](#) to gain more insight into advanced development techniques.

## Deploy the Project

Create a super user to add data into the data base by the following command:

```
python manage.py createsuperuser
```

Now, Go to the <http://127.0.0.1:8000/admin/> and add the Images, name and its description.



Migrate the data into the database.



```
python manage.py makemigrations
```

```
python manage.py migrate
```




Deploy the project

```
python manage.py runserver
```

Output:

---

## Today's New Blogs

 <p><b>Jasmine Flower</b></p> <p>Welcome to Jasmine Flower! The purpose of this blog is to express feelings, emotions, and just about everything in between!...</p> <p><a href="#">Edit</a> <a href="#">Delete</a></p> <p>Created at: Oct. 2, 2023, 10:18 a.m. Updated at: Oct. 2, 2023, 11:24 a.m.</p>	 <p><b>Rose Flower</b></p> <p>Roses are one of the favorite flowers of many people. Tawny roses, with their delicate and charming appearance, have long held value for their beauty and symbolism. In addition to their aesthetic appeal, these unique flowers offer several benefits.</p> <p><a href="#">Edit</a> <a href="#">Delete</a></p>	 <p><b>Sunflower</b></p> <p>Sunflowers are useful plants with large flower heads, or blooms. They are named for the way they turn their blooms...</p> <p><a href="#">Edit</a> <a href="#">Delete</a></p> <p>Created at: Oct. 2, 2023, 11:26 a.m. Updated at: Oct. 2, 2023, 11:28 a.m.</p>
--	--	---

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## Jasmine Flower - Blog



### Jasmine Flower

Welcome to Jasmine Flower! The purpose of this blog is to express feelings, emotions, and just about everything in between! Often times, I find self expression difficult but that all changes once I begin to write. My hope is that others will read my posts and be able to relate to the emotions behind them.

[Edit](#) [Delete](#)

[Back to Blogs Home Page](#)

# Delete Blog Post

Are you sure you want to delete "Jasmine Flower"?

Yes, Delete

### Edit Blog Post

Name:

Description: 

Welcome to Jasmine Flower! The purpose of this blog is to express feelings, emotions, and just about everything in between! Often times, I find self expression difficult but that all changes once I begin to write. My hope is that others will read my posts and be able to relate to the emotions behind them.

Image: Currently: [products/jasmini\\_ZOiLJB3.jpg](#)  
Change:  No file chosen

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A amit...



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