

## Step-by-step Guide: Adding Image Upload and Display in Django

### 1. Install Pillow

```
pip install Pillow
```

### 2. Update your model (models.py)

```
from django.db import models
class Post(models.Model):
    title = models.CharField(max_length=100)
    content = models.TextField()
    post_image = models.ImageField(upload_to='post_images/', null=True, blank=True)
    created_at = models.DateTimeField(auto_now_add=True)
    updated_at = models.DateTimeField(auto_now=True)
```

### 3. Update your admin (admin.py)

```
from django.contrib import admin
from .models import Post
from django.utils.html import format_html
class PostAdmin(admin.ModelAdmin):
    list_display = ("title", "post_image_tag", "created_at", "updated_at")
    def post_image_tag(self, obj):
        if obj.post_image:
            return format_html('', obj.post_image.url)
        return "-"
    post_image_tag.short_description = 'Image'
admin.site.register(Post, PostAdmin)
```

### 4. Update settings.py

```
MEDIA_URL = '/media/'
MEDIA_ROOT = BASE_DIR / 'media'
```

### 5. Update main urls.py (firstproject/urls.py)

```
from django.conf import settings
from django.conf.urls.static import static
urlpatterns = [
    # ...your url patterns...
]
urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
```

### 6. Make and apply migrations

```
python manage.py makemigrations
python manage.py migrate
```

### 7. Update your template (index.html)

```
{% for post in posts %}
<div>
    <h2>{{ post.title }}</h2>
```

```
{% if post.post_image %}
    
{% endif %}
<p>{{ post.content }}</p>
</div>
{% endfor %}
```

## 8. Uploading images

- Go to Django admin, add or edit a post, and upload an image using the file field.

## 9. Serving images

- When running `python manage.py runserver`, Django will serve images from `/media/`.