---- DJANGO TUTORIAL 4 -----

We Cover CSS Styling, Static Files, Adding Detail Pages and Linking to Them, Updating Models, Working with Images and More

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# 1. Create directory for css files
mkdir project_3/static/css
# 2. Add base.css to static/css
 margin: 0;
 padding: 0;
body {
 background-color: gray;
 font-size: 62.5%;
 padding: 0;
 margin: 0;
.wrapper {
 width: 900px;
 font-size: 1.6em;
 margin: 0 auto;
 background-color: white;
p {
 padding: 0 0 1em 0;
header {
 text-align: right;
 background-color: brown;
 color: white;
 padding: 2em;
main {
 padding: 2em;
 position: relative;
.art-img {
 float: left;
 margin: 15px;
 height: 100px;
 width: 100px;
h3{
 margin-bottom: 1em;
# 3. Create base.html in templates
{% load static %}
<!DOCTYPE html>
<html lang="en">
 <head>
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<title>Django Blog</title>
 k href="{% static 'css/base.css' %}" rel="stylesheet">
 </head>
 <body>
  <div class="wrapper">
 {% block content %}
 {% endblock content %}
  </div> <!-- End of wrapper -->
 </body>
</html>
# 4. Update home.html
{% extends 'base.html' %}
{% block content %}
<main>
 {% for article in all_articles_list %}
 <section>
  <h3>{{ article.title }}</h3>
  <article>
   {{ article.text|linebreaks }}
  </article>
 </section>
{% endfor %}
</main>
{% endblock content %}
# 5. Update settings with static info
STATIC ROOT = "
STATIC URL = '/static/'
STATICFILES_DIRS = (os.path.join('static'),)
# 6. Add individual article pages by adding DetailView to articles/views.py
from django.views.generic import ListView, DetailView
from .models import Article
class HomePageView(ListView):
  model = Article
  template name = 'home.html'
  context object name = 'all articles list'
class ArticleDetailView(DetailView):
  model = Article
  template_name = 'article_detail.html'
# 7. Create article detail.html to templates
{% extends 'base.html' %}
{% block content %}
<main>
 <section>
  <h3>{{ article.title }}</h3>
  <article>
   {{ article.text|linebreaks }}
```

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</article>
 </section>
</main>
{% endblock content %}
# 8. Add the article detail url to articles/urls
from django.urls import path
from .views import HomePageView, ArticleDetailView
urlpatterns = [
path('article/<int:pk>/', ArticleDetailView.as_view(), name='article_detail'),
path('', HomePageView.as view(), name='home'),
# 9. Update home.html so you can click on article titles and go to the detail page
 {% for article in all_articles_list %}
 <section>
  <h3><a href="{% url 'article detail' article.pk %}">{{ article.title }}</a></h3>
  <article>
# 10. Update models.py to have a author and foreign key
from django.db import models
class Article(models.Model):
  title = models.CharField(max_length=200)
  text = models.TextField()
  # Define a foreign key so we can define that
  # an author can have many posts
  # We'll identify users using the built in
  # authentication system
  # When defining a many to one relationship we
  # must define on_delete
  author = models.ForeignKey(
  'auth.User'.
  # When this object is deleted also delete all
  # references to it
  on delete = models.CASCADE,
  default = 1,
  # Returns the article title when the object
  # is printed
  def str (self):
    return self.title
# 11. Migrate our model to the DB
Ctrl+C
python manage.py makemigrations articles
# a. When you get 1) Provide a one-off default now provide 1
python manage.py migrate articles
```

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# 12. Create a media folder, put images in it and update settings
mkdir /media
Add images to it
# Add this to settings
MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
MEDIA_URL = '/media/'
# 13. Update project 3/urls.py
from django.contrib import admin
from django.urls import path, include
from . import settings
from diango.contrib.staticfiles.urls import static
from django.contrib.staticfiles.urls import staticfiles urlpatterns
urlpatterns = [
  path('admin/', admin.site.urls),
  path('', include('articles.urls')),
urlpatterns += staticfiles_urlpatterns()
urlpatterns += static(settings.MEDIA URL, document root=settings.MEDIA ROOT)
# 14. Install Pillow so we can use images in our model
Ctrl + C
exit
pipenv install pillow==7.0.0
pipenv shell
# 15. Add image to the model.py
# Will hold photos for articles
photo = models.lmageField(upload_to="gallery", default = 'drop-bear.png')
# 16. Create migrations
python manage.py makemigrations articles
python manage.py migrate articles
# 17. Update home.html
<main>
 {% for article in all articles list %}
 <section>
  <h3><a href="{% url 'article_detail' article.pk %}">{{ article.title }}</a></h3>
  <article>
   <img src="{{ article.photo.url}}" alt="{{ article.title }}"</pre>
   class="art-img">
   {{ article.text|linebreaks }}
  </article>
 </section>
{% endfor %}
</main>
# 18. Resize images in base.css
.art-img {
 float: left;
```