

Django Multi App Project Structure

Multiple Django apps with separated concerns. Standard approach for medium-sized projects.

#django #python #web #backend #modular

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Project Directory

myproject/

manage.py

> config/Project configu...

__init__.py

> settings/Split by enviro...

__init__.py

base.pyShared settings

local.pyDev overrides

production.pyProd overrides

test.pyTest overrides

urls.pyRoot URL config

wsgi.py

asgi.py

> apps/All Django apps...

> users/Custom user mod...

__init__.py

admin.py

apps.py

models.py

views.py

urls.py

forms.py

managers.pyCustom user man...

> migrations/

__init__.py

> tests/

__init__.py

test_models.py

test_views.py

> blog/Example feature...

__init__.py

admin.py

apps.py

models.py

views.py

urls.py

forms.py

> migrations/

__init__.py

> tests/

__init__.py

test_models.py

test_views.py

__init__.py

> templates/Project-wide te...

base.htmlMaster template

404.html

500.html

> users/

login.html

profile.html

> blog/

post_list.html

post_detail.html

> static/Project-wide st...

css/

js/

images/

media/User uploads (g...

> requirements/Split requireme...

base.txt

local.txt

production.txt

.env.example

.gitignore

pytest.ini

Why This Structure?

This structure separates apps into their own directory, uses split settings for different environments, and centralizes templates at the project level. It scales well for teams of 2-5 developers working on distinct features.

Key Directories

config/settings/ - Environment-specific settings (**base** → **local** / **prod** / **test**)

apps/ - All Django apps grouped together, not scattered at root

templates/ - Project-level templates, organized by app name

requirements/ - Split dependencies matching settings structure

Settings Strategy

base.py - **INSTALLED_APPS** , middleware, shared config

local.py - **DEBUG=True** , SQLite, django-debug-toolbar

production.py - **DEBUG=False** , PostgreSQL, security headers

test.py - Fast password hasher, in-memory cache

>_ Getting Started

1. Create virtualenv and install **requirements/local.txt**
2. **cp .env.example .env** and set **DJANGO_SETTINGS_MODULE=config.settings.local**
3. **python manage.py migrate**
4. **python manage.py createsuperuser**
5. **python manage.py runserver**

Creating New Apps

- **cd apps && django-admin startapp newapp**
- Add **"apps.newapp"** to **INSTALLED_APPS** in **base.py**
- Create **apps/newapp/urls.py** with **urlpatterns**
- Include in **config/urls.py** : **path("newapp/", include("apps.newapp.urls"))**

☒ When To Use This

- Projects with 3-10 distinct feature areas
- Small teams (2-5 developers)
- Multiple deployment environments needed
- Projects expecting 6+ months of development

Trade-offs

More files - Split settings add complexity vs single **settings.py**

Import paths - **"apps.blog.models"** instead of **"blog.models"**

Initial setup - Takes longer than single-app but pays off quickly