

Modularization

Settings for

Dev and Prod

In Django



Intro

To maintain, one settings file for production and development is kind of complex things, so we will **Modularization** our settings for both dev and prod.

Let's create

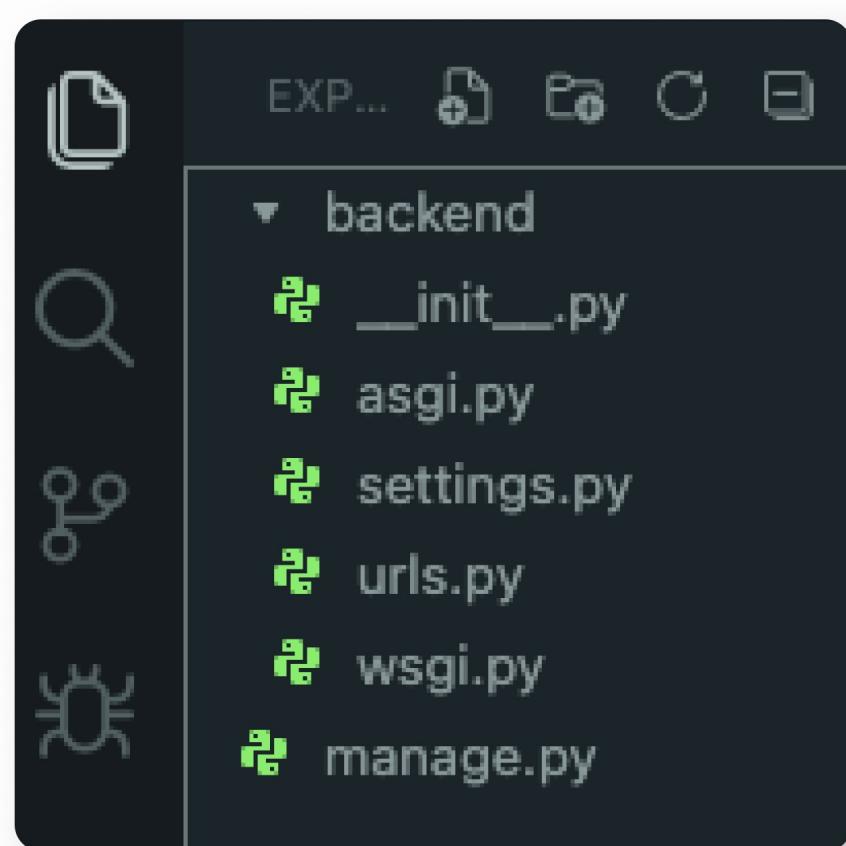
Django Project

We will create a simple django project called backend here, by simple hit thus command

```
django-admin startproject backend
```

Overview

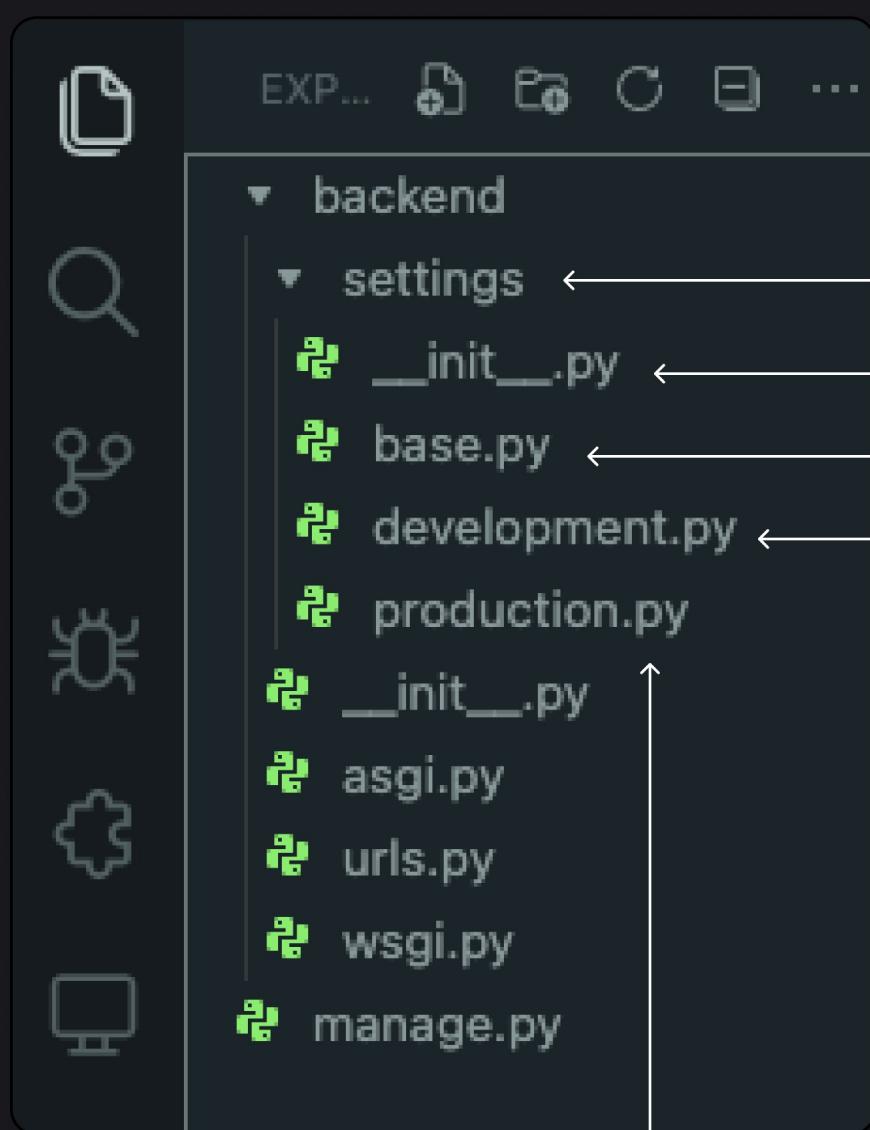
Project Structure



This is how our project should look like this, we can see we have only settings.py file for maintaining settings of our project for both dev and prod

Let's re-structure

Project settings



Create production.py file and her will add the settings related to prod.

Create a settings folder inside root project

Create init file.

Move settings.py file inside settings folder and rename to base.py

Create development.py file and her will add the settings related to dev.

Modify the manage.py file

We just also need to modify some changes in manage.py file, hence we have changed our settings structure.

```
import os
import sys
from backend.settings import DEBUG

def main():
    """Run administrative tasks."""

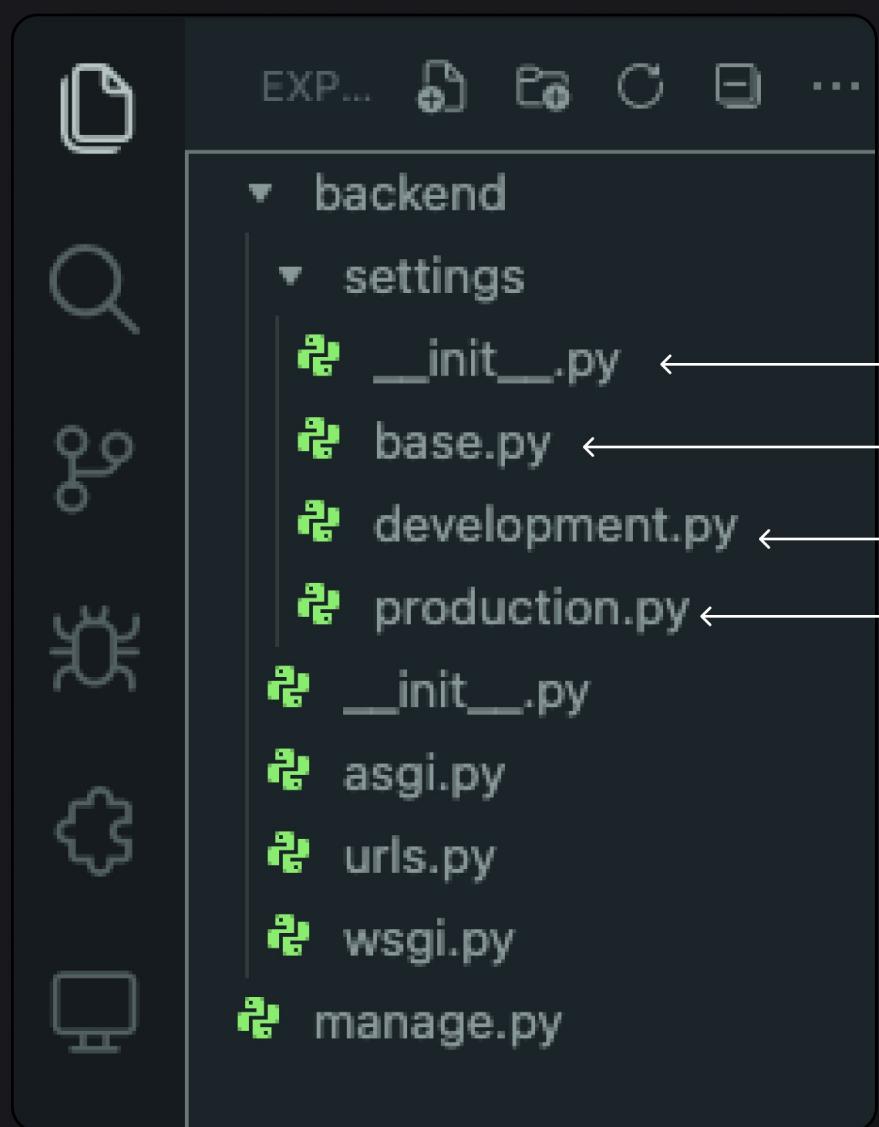
    if DEBUG: ←
        os.environ.setdefault("DJANGO_SETTINGS_MODULE",
"backend.settings.development")
        os.environ.setdefault("DJANGO_SETTINGS_MODULE",
"backend.settings.production")

    try:
        ...
    except ImportError as exc:
        ...
```

import DEBUG from
settings

Here we have added the condition if DEBUG is True then set the default as a dev settings otherwise prod settings

*Same changes we can do with asgi.py and wsgi.py file



In base.py file just copy all
the default settings

Open __init__.py,
development.py, production.py
file and import base

```
from . import base
```

In dev, here we specified sqlite3 database

```
from . import base                                         development.py

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
    }
}
```

In prod, here we specified postgresql database

```
from . import base                                         production.py

DATABASES = {
    "default": {
        "ENGINE": "django.db.backends.postgresql_psycopg2",
        "NAME": os.environ.get("DATABASE_NAME"),
        "USER": os.environ.get("DATABASE_USER"),
        "PASSWORD": os.environ.get("DATABASE_PASSWORD"),
        "HOST": os.environ.get("DATABASE_HOST"),
        "PORT": os.environ.get("DATABASE_PORT"),
    }
}
```

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