

Django Project Structure

Setting up a Django project and understanding its structure is fundamental to developing applications effectively. Let's go through the steps to create a new Django project and app, and then explore the directory structure and the purpose of key files.



1. Create a New Django Project

Overview: A Django project is a collection of settings and configurations for an instance of Django, including database configuration, Django-specific options, and application-specific settings.

Janja Programmers

Esay Steps

- 1. Open a terminal.
- 2. Navigate to the directory where you want to create your project.
- 3. Run the django-admin startproject command:
 - Command: django-admin startproject projectname (replace projectname with your desired project name).

Example (Project)

```
django-admin startproject myproject
```

This command creates a new directory named myproject with the following structure:

```
myproject/
    manage.py
    myproject/
    __init__.py
    settings.py
    urls.py
    wsgi.py
    asgi.py
```

Janja Programmers

3. Explore the Directory Structure and Files Created by Django

Project Directory (myproject/)

• manage.py: A command-line utility that lets you interact with this Django project. You can use it to start the development server, apply migrations, create apps, etc.

- myproject/ directory:
 - __init__.py : An empty file that indicates to Python that this directory should be considered a package.
 - settings.py: Contains all the settings/configuration for your project. This
 includes database configurations, installed apps, middleware, templates, and
 more.
 - urls.py: The URL configuration file for the project. It routes URLs to views.
 - wsgi.py: Entry point for WSGI-compatible web servers to serve your project.
 Used for deployment.
 - asgi.py: Entry point for ASGI-compatible web servers to serve your project.
 Used for deployment with asynchronous capabilities.

Learn Django | Georges 6

