

Exercise 2.2: Django Project Set Up

Learning Goals

- Describe the basic structure of a Django project
- Summarize the difference between projects and apps
- Create a Django project and run it locally
- Create a superuser for a Django web application

Reflection Questions

1. Suppose you're in an interview. The interviewer gives you their company's website as an example, asking you to convert the website and its different parts into Django terms. How would you proceed? For this question, you can think about your dream company and look at their website for reference.

(Hint: In the Exercise, you saw the example of the Career Foundry website in the Project and Apps section.)

Let's take Netflix for example.

The whole website would be the "project".

This project contains modules (apps) like "user management", "content management", "streaming", "search", "recommendations" and so on, each having a specific functionality.

2. In your own words, describe the steps you would take to deploy a basic Django application locally on your system.
 1. Create and activate the virtual environment the app should be developed in
 2. Install Django in this VE
 3. Create the project structure via 'django-admin.exe startproject <project_name>'
 4. Run migrations to create the database via 'py manage.py migrate'
 5. Create a superuser via 'python manage.py createsuperuser'
 6. Start the server via 'py manage.py runserver'
3. Do some research about the Django admin site and write down how you'd use it during your web application development.

The Django admin panel (<http://127.0.0.1:8000/admin/>) can be used for CRUD operations on the database, quick prototyping, user and permission management, debugging and possibly content management.