

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 CareerFoundry website in the Project and Apps section.)

The main sections of a website usually include the homepage and individual pages for things like frequently asked questions, contact information, about section, products/services, and a blog. Converting these sections into Django terms, the website itself would be the project and the individual sections that make up the website are the apps. Each section of the project (website) manages a different part, e.g. the contact page would be the app that manages the contact form, and the data associated with it.

2. In your own words, describe the steps you would take to deploy a basic Django application locally on your system.

To deploy a Django application locally, you would first make sure you have python installed, then set up a virtual environment and install Django within the environment. Once Django is installed, you can use `django-admin startproject <name>` to create your project, run migrations with `python manage.py migrate`, then you can start the server with `python 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 site allows you to modify records in your database during your application development without having to write SQL queries. It also lets you manage users of your application and the permissions that they have, which dictates how they can interact with the application. Not only does the admin site let you modify the database using a GUI, but you can also customize the site with themes depending on your needs.