

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

- ❖ 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.*)
 - Looking at the Apple website, the whole website would be regarded as the "project". Inside this project, some modules (apps) would include "signin", "orders", "support", "iPhone" (and separate apps for each category of product offered). Each of these apps would serve a particular function. For example, the "signin" app allows users to login to their Apple account where they can see their orders and saved products. The "support" app allows users to seek assistance with their account or product. Individual product category apps like "iPhone" would display product information.
- ❖ In your own words, describe the steps you would take to deploy a basic Django application locally on your system.
 - To deploy a basic Django application locally on my system, I would first need to create a virtual environment, activate it, and install Django. With Django installed, I can create a new project using Django's command line utility (django-admin). While inside the project root folder, I would then run migrations in the terminal to create the necessary database(s) and table(s) for the first time and then run the server to view the web application in the browser at the link displayed in the terminal (by default on port 8000).
- ❖ 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 can be used to save time during web application development by making use of models to automatically build a site that we can use to create, read, update, and delete records. It makes it easy to test our models and check for the correct types of data. It would be useful for managing data in production but mainly for internal data management only (not for customer facing as it can expose unnecessary and/or sensitive details about the models).