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 whole website is considered a project. Different functionalities on the site, such as loging in, are considered apps.Where data, like different users accessed at login, are stored is the database. Each app, has it's own table in the database. The configuration files are what manage the project functions by interacting with the apps and database.

2. In your own words, describe the steps you would take to deploy a basic Django application locally on your system.
   First, I would make sure Pythin is installed on my system. Next, I would create a virtual environment and activate it. I would then install Django in my project within my activated virtual environment. Next, I would create the Django project using the admin command startproject. Then I would navigate to myproject directory and run Migrations to create the database in SQLite. Next, I would create a superuser. This is where I can now add apps to my project as needed. Finally, I would run the server on my local host.

3. Do some research about the Django admin site and write down how you'd use it during your web application development.
   I could define admin classes and apply them to the various apps to control how the models are displayed and managed within the site. This is where I can add, edit, or delete apps (CRUD operations) and also manage admin users permissions.