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.*)

   In a website like Pinterest, the whole website would be considered a project and the individual components (like login, specific pictures of topics, the algorithms that make suggestions, etc.) would be the apps that Django is comprised of.

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

   The first thing you would do would be to set up a virtual environment in the terminal. Then I would download Django and start a new product using built-in tools, specifically "django-admin startproject <_____>". This will create the file tree for the application. I would then run migrations to create the databases needed for the project. Then I would need to create a superuser to access administration functions. Then I would create apps that had specific functionality within the project. Then I would run the server on localhost.

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 is where users can create, read, update, and delete data in the database using CRUD commands which speeds up development time because you are operating directly on the model.