Exercise 1.7: Finalizing Your Python Program

Learning Goals

- Interact with a database using an object-relational mapper
- Build your final command-line Recipe application

Reflection Questions

1. What is an Object Relational Mapper and what are the advantages of using one?

   Ans: An Object Relational Mapper (ORM) in Python lets you interact with databases using code that looks like regular Python objects, avoiding the need for complex SQL queries. This simplifies database operations, makes code more readable, and enhances security by automatically handling certain types of security risks. Additionally, ORMs provide a convenient way to work with databases without getting into the nitty-gritty details of database-specific syntax.

2. By this point, you've finished creating your Recipe app. How did it go? What's something in the app that you did well with? If you were to start over, what's something about your app that you would change or improve?

   Ans: I thoroughly enjoyed the process of creating the Recipe app, finding Python more approachable than other languages. My focus was on simplicity and user-friendliness, and I did my best to ensure an easy and enjoyable experience for users. Looking back, I would prioritize refining the user interface even further if I were to start over.

3. Imagine you're at a job interview. You're asked what experience you have creating an app using Python. Taking your work for this Achievement as an example, draft how you would respond to this question.

   Ans: I have practical experience in creating a recipe management app using Python. In this project, I implemented a backend using SQLAlchemy for database interaction and created a user-friendly command-line interface for input and interaction. I focused on features such as recipe creation, editing, and deletion, incorporating user input validation. Additionally, I implemented a search functionality based on ingredients. This project allowed me to

strengthen my skills in Python, database management, and user interface design.

4. You've finished Achievement 1! Before moving on to Achievement 2, take a moment to reflect on your learning in the course so far:
    a. What went well during this Achievement?
       Ans: Overall, the process went smoothly, and I found learning basic Python for app development to be more straightforward compared to other languages, such as JavasScript.
    b. What's something you're proud of?
       Ans: I was able to grasp key concepts and implement functionalities effectively in my app project.
    c. What was the most challenging aspect of this Achievement?
       Ans: I faced challenges with setting up the database connection using SQLAlchemy in the beginning
    d. Did this Achievement meet your expectations? Did it give you the confidence to start working with your new Python skills?
       Ans: Yes, this achievement did meet my expectations and I would like to work on more apps using Python.
    e. What's something you want to keep in mind to help you do your best in Achievement 2?
       Ans: In Achievement 2, I aim to stay focused and motivated to ensure my best performance.