Exercise 2.1: Getting Started with Django

Learning Goals

- Explain MVT architecture and compare it with MVC
- Summarize Django's benefits and drawbacks
- Install and get started with Django

Reflection Questions

1. Suppose you're a web developer in a company and need to decide if you'll use vanilla (plain) Python for a project, or a framework like Django instead. What are the advantages and drawbacks of each?

Advantages of Python include: Easy to learn, user-friendly data structures, extensive support libraries and large community base.

Advantages of Django include: Fast processing, batteries included framework, scalable, security, and fast development.

Drawbacks of Python: Slow speed, heavy memory usage, and lack of support for mobile environments.

Drawbacks of Django: Not best for small projects and must be structured in a pre-specific manner known as "the Django way".

2. In your own words, what is the most significant advantage of Model View Template (MVT) architecture over Model View Controller (MVC) architecture?

MVT does not require you to write code to fetch data from the database and map it to the URL. MVC you would have to write code to fetch the list from the database, write HTML and CSS to display the list, map the list to the URL, and then send the list to the user. MVT you simply need to specify which items to present to the user, and the framework will prepare and send it.

3. Now that you've had an introduction to the Django framework, write down three goals you have for yourself and your learning process during this Achievement. You can reflect on the following questions if it helps:

- What do you want to learn about Django?

  How best to use it to make websites easier to code and develop.

- What do you want to get out of this Achievement?

The basic knowledge and understanding of using Django and knowing when it is best to use for projects.

- Where or what do you see yourself working on after you complete this Achievement?

More projects involving all the languages that I have learned throughout this course in   order to better develop my full-stack skills.