2.1 Learning Journal

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?

   Some advantages to using vanilla Python are that it is lightweight, it provides flexibility, and has an easier learning curve for developers. The drawbacks are a lack of built-in features, longer development times, and maintainability.

   The advantages to using Django are rapid development, scalability, and its active community, which offers access to a vast collection of third-party packages, libraries, and resources. The drawbacks are the learning curve, limitations that don't align with specific requirements, and overhead in terms of performance and resource uasge.

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

   The most significant advantage of the Model View Template (MVT) architecture over the Model View Controller (MVC) architecture is the clear separation of concerns and the decoupling of business logic from the user interface. In MVT, the template handles the presentation logic, the view handles the application logic, and the model handles the data manipulation. This separation allows for better code organization, easier maintenance, and improved reusability, as each component can be developed and tested independently. Additionally, the MVT architecture promotes a more intuitive and straightforward workflow for web development, making it easier for developers to understand and work with.

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?
     I would eventually like to learn about the Django REST framework and learn how to create APIs, handle serialization, authentication, permissions, and versioning.

   - What do you want to get out of this Achievement?
     I would like to learn more about Django and develop a project worthy of adding to my portfolio.

   - Where or what do you see yourself working on after you complete this Achievement?
     I see myself working on a full-stack Python Django app.