

## 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 frameworks:

- Drastically cut development time by taking care of the heavy lifting involved with database access, templates, user-session management, and so forth. Faster development.
- Faster to deploy. Secure deployment.
- Promote standardized development process. Scalability.
- Predefined workflows (provide basic prerequisites to get applications up and running)

Disadvantages of frameworks:

- Projects may have to be structured and done in a pre-specified manner.
- Unsuitable for smaller projects and products with few features and requirements.
- Includes many features and configurations that developers can't easily understand, making it difficult to learn.

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

With Model View Template (MVT) architecture you don't have to write code to fetch the data from the database and map it to the URL. You simply need to specify which items to present to the user, and the template 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?
  - What do you want to get out of this Achievement?
  - Where or what do you see yourself working on after you complete this Achievement?
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- Learn Django basics
  - Improve Python skills and knowledge

- Add machine learning to the Recipe app (Django version)