### **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?*

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| --- | --- | --- | --- |
| **Vanilla Python** | | **Django** | |
| *Advantages* | *Drawbacks* | *Advantages* | *Drawbacks* |
| Simple and flexible | No predefined structure | Comes with many tools and features | More complexity and overhead |
| You have full control | Less reusability | Structured and easier to maintain | Less flexibility for unique requirements |
| Lightweight | Takes more time to develop | Large community support | Steeper learning curve |

1. *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 is that it simplifies the development process by removing the need for explicit controllers, making it clearer and more straightforward.

1. *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 want to understand the fundamental ideas behind Django, such as creating models to represent data, defining views to handle user requests, designing templates for presenting information, setting up URL routing to navigate between different pages and maybe more advanced topics like authentication.

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

I want to gain practical skills in Django development and become confident in building web applications. I hope to understand best practices and successfully deploy projects.

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

After completing this achievement, I plan to find a job as a Junior Developer. I want to gain experience by working on real projects and continue learning Python, Django, and other frameworks. This practical experience will help me grow as a developer and open more career opportunities in the future.