# Exercise 2.1: Getting Started with Django

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?

Django Advantages

Written on Python, easy to learn
Supports multiple languages. Users translate text into various languages
Supports Object-Relational Mapper. Users define their Data Models
Built-in Admin. Has added user and created group functions
Full-featured and authentication system that handles User Account, Password, and Cookies
Used worldwide

Django Disadvantages

Lacks the capacity to manage multi requests
The routing pattern specifies its URL
Its monolithic; requires users to write into a given design as opposed to a free programming structure

Python Advantages

Easy to read and understand
Open-source, users download freely
Supports Object-Orientation and procedure-oriented programming
It offers a large community
No need to declare the type of variable while writing code
Has own frameworks
Expandable to other languages such as C and C++
It comes pre-installed in Mac OS
Supports a large number of standard libraries
Code written on one platform can run into others without alterations

Python Disadvantages

Python isn't used often in Smartphone Apps
Python's Databases are still under-developed
Python is slow when compared to other High-level languages such as Java and C++
It has a Dynamic language that leads to mistakes when users interchange data types

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

Modifications are much easier to make on MVT architecture, and MVT is suitable for both large and small applications while MVC is more suitable for large applications.

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 would like to learn how Django makes frontend and backend projects easier and faster.

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

I want to be able to understand and write code in Django to be able to develop other apps.

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

More full stack apps that make use of the most appropriate technologies and frameworks.