

Exercise 2.1 Questions:

1. Write two to three sentences on why Django is so popular among web developers.

Django is a go-to choice for many web developers. It's packed with features right from the start, helping you get complex web apps up and running quickly. Plus, Django's focus on clear, practical design and its top-notch documentation make it a solid option, no matter your experience level.

2. After some research, list five large companies that use Django. Specify what the company's product or service is and what they use Django for.

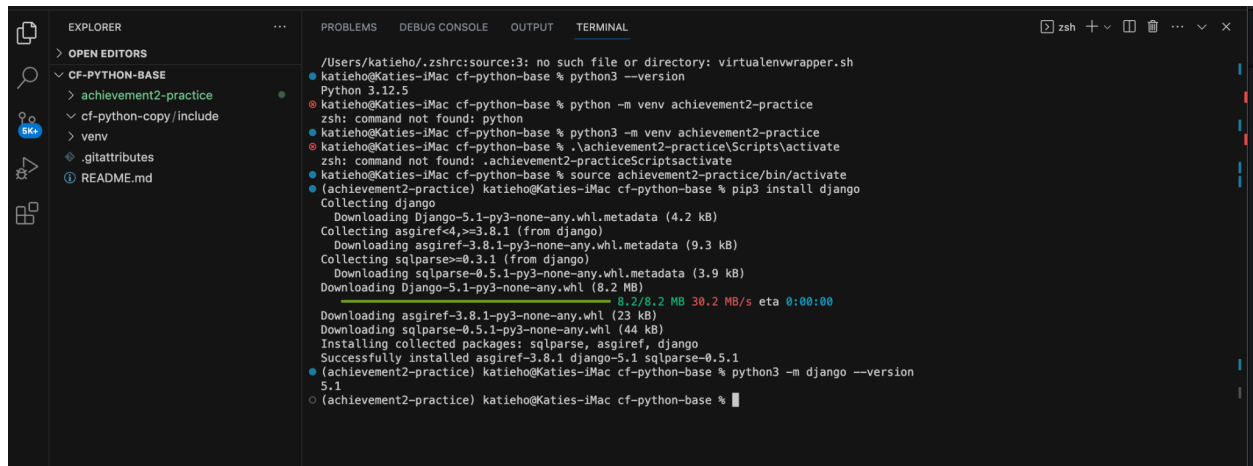
Here are five major companies that use Django and how they put it to work:

- **Instagram:** This social media giant relies on Django for its backend, managing millions of users and their photos.
- **Mozilla:** The folks behind Firefox use Django to power many of their websites and web applications.
- **NASA:** Even the space agency uses Django, particularly for some of their websites and data management systems.
- **Spotify:** The music streaming service uses Django to support parts of its backend services and data analysis.
- **Dropbox:** Django plays a role in various internal tools and some of the features users interact with directly.

3. For each of the following scenarios, explain if you would use Django (and why or why not):

- **Building a web app with multiple users:** Definitely. Django's built-in user management features make it easy to handle multiple users.
- **Quick deployment and easy updates:** Yes, Django's tools make it easy to develop, iterate, and deploy your app quickly.
- **Simple app without much backend work:** Maybe not. Django might be more than you need—something lighter like Flask could be a better fit.
- **Starting from scratch with full control:** It depends. Django has a lot of built-in assumptions, which can be limiting if you want total freedom. You might prefer a simpler framework.
- **Large project with long-term support needs:** Django is a strong contender. Its large community and excellent documentation are big pluses for tackling large, complex projects.

4. Python Version/Virtual Environment/Django Version:



The screenshot shows a VS Code interface with a terminal window open. The terminal displays the following commands and output:

```
/Users/katieho/.zshrc:source:3: no such file or directory: virtualenvwrapper.sh
katieho@Katies-iMac cf-python-base % python3 --version
Python 3.12.5
katieho@Katies-iMac cf-python-base % python -m venv achievement2-practice
zsh: command not found: python
katieho@Katies-iMac cf-python-base % python3 -m venv achievement2-practice
katieho@Katies-iMac cf-python-base % .\achievement2-practice\Scripts\activate
zsh: command not found: .achievement2-practiceScriptsactivate
katieho@Katies-iMac cf-python-base % source achievement2-practice/bin/activate
(achievement2-practice) katieho@Katies-iMac cf-python-base % pip3 install django
Collecting django
  Downloading Django-5.1-py3-none-any.whl.metadata (4.2 kB)
Collecting asgiref<4,=>3.8.1 (from django)
  Downloading asgiref-3.8.1-py3-none-any.whl.metadata (9.3 kB)
Collecting sqlparse=>0.3.1 (from django)
  Downloading sqlparse-0.5.1-py3-none-any.whl.metadata (3.9 kB)
Downloading Django-5.1-py3-none-any.whl (8.2 MB)
8.2/8.2 MB 30.2 MB/s eta 0:00:00
Downloading asgiref-3.8.1-py3-none-any.whl (23 kB)
Downloading sqlparse-0.5.1-py3-none-any.whl (44 kB)
Installing collected packages: sqlparse, asgiref, django
Successfully installed asgiref-3.8.1 django-5.1 sqlparse-0.5.1
(achievement2-practice) katieho@Katies-iMac cf-python-base % python3 -m django --version
5.1
(achievement2-practice) katieho@Katies-iMac cf-python-base %
```