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## CareerFoundry Python 2.1

1. Write two to three sentences on why Django is so popular among web developers.
  - Django is popular among web developers due to its batteries-included features which allows developers to scale and build with more speed than they would have with a MVC framework. Django has things like built-in encryption and other security measures which makes it a reliable framework for small to large projects.
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.
  - Instagram: Social media platform that uses Django to handle their user interactions at scale
  - Dropbox: Cloud storage, uses Django for user file management and storage
  - Pinterest: Photo social media platform that uses Django for their user content management
  - Spotify: Music Streaming, uses Django to handle their backend services
  - The Washington Post: U.S. news outlet that uses Django is used to manage their content-heavy site
3. For each of the following scenarios, explain if you would use Django (and why or why not):

- You need to develop a web application with multiple users.
  - i. Use Django here because it has built in user authentication features and can scale with a lot of users.
- You need fast deployment and the ability to make changes as you proceed.
  - i. Use Django here due to its development speed and loose coupling, allowing changes.
- You need to build a very basic application, which doesn't require any database access or file operations.
  - i. Django is probably not necessary here as you would be taking on a lot of extra features and functionality related to databases that you don't need.
- You want to build an application from scratch and want a lot of control over how it works.
  - i. Django doesn't give the developer control over some functionality, compared to a MVC framework. Using Django would obscure a lot of the "from scratch" aspects.
- You're about to start working on a big project and are afraid of getting stuck and needing additional support.
  - i. Django is a good choice here because due to its popularity, it has extensive documentation and support available on the web and from other devs.

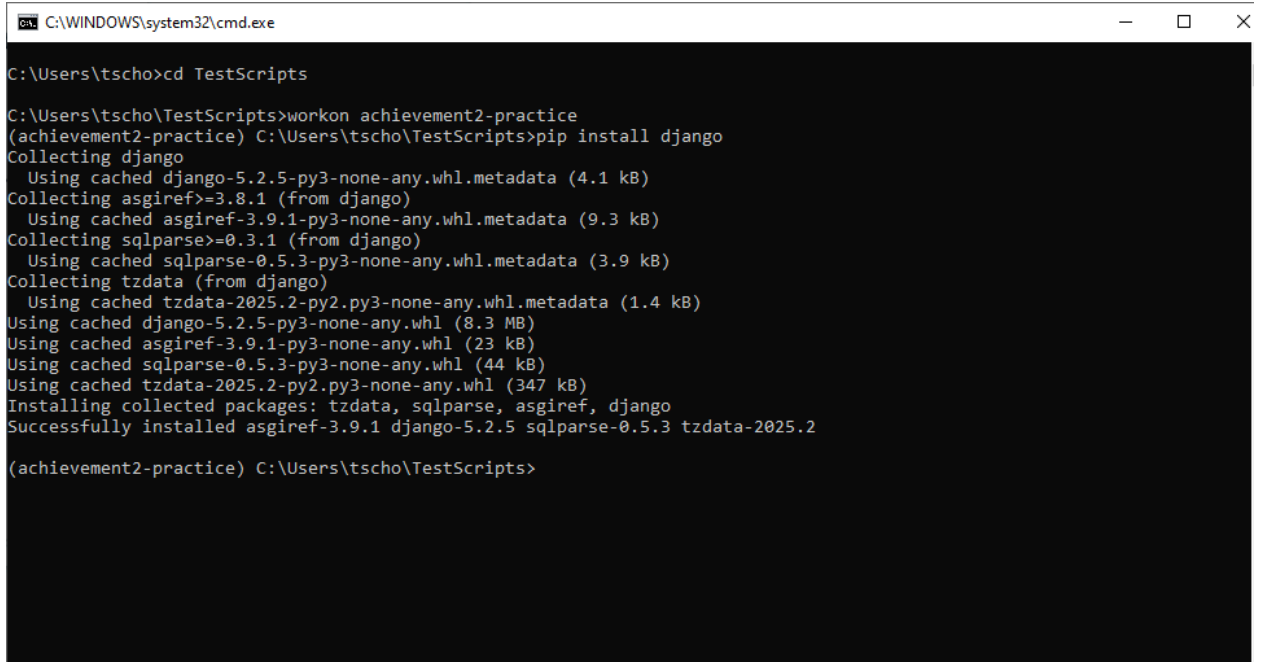
## TASK SCREENSHOTS

### Virtual Env created and Python Installed:

```
C:\Users\tscho\TestScripts>mkvirtualenv achievement2-practice
created virtual environment CPython3.11.4.final.0-64 in 567ms
  creator CPython3Windows(dest=C:\Users\tscho\Envs\achievement2-practice, clear=False, no_vcs_ignore=False, global=False)
  seeder FromAppData(download=False, pip=bundle, setuptools=bundle, via=copy, app_data_dir=C:\Users\tscho\AppData\Local\pypa\virtualenv)
    added seed packages: pip==25.2, setuptools==80.9.0
  activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator

(achievement2-practice) C:\Users\tscho\TestScripts> python --version
Python 3.11.4
```

### Django installed



```
C:\WINDOWS\system32\cmd.exe

C:\Users\tscho>cd TestScripts

C:\Users\tscho\TestScripts>workon achievement2-practice
(achievement2-practice) C:\Users\tscho\TestScripts>pip install django
Collecting django
  Using cached django-5.2.5-py3-none-any.whl.metadata (4.1 kB)
Collecting asgiref>=3.8.1 (from django)
  Using cached asgiref-3.9.1-py3-none-any.whl.metadata (9.3 kB)
Collecting sqlparse>=0.3.1 (from django)
  Using cached sqlparse-0.5.3-py3-none-any.whl.metadata (3.9 kB)
Collecting tzdata (from django)
  Using cached tzdata-2025.2-py2.py3-none-any.whl.metadata (1.4 kB)
Using cached django-5.2.5-py3-none-any.whl (8.3 MB)
Using cached asgiref-3.9.1-py3-none-any.whl (23 kB)
Using cached sqlparse-0.5.3-py3-none-any.whl (44 kB)
Using cached tzdata-2025.2-py2.py3-none-any.whl (347 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.9.1 django-5.2.5 sqlparse-0.5.3 tzdata-2025.2

(achievement2-practice) C:\Users\tscho\TestScripts>
```