

EXERCISE 2.1 - Getting Started with Django

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Course: CareerFoundry - Python for Web Developers

PART 1: THEORY QUESTIONS

Question 1: Why is Django so popular?

Django is popular because it helps developers build secure, scalable websites quickly. It comes with built-in tools like user login systems, admin dashboards, and database connections, so you don't have to build everything from scratch. It's written in Python, which is easy to learn and widely used. Django also has strong documentation and a large community, which makes it easier to get help and find solutions when you're stuck.

Question 2: Five Companies That Use Django

1. **Instagram** – Uses Django to manage user accounts, media uploads, and the content feed.
2. **Spotify** – Uses Django for internal tools like data dashboards and payment systems.
3. **NASA** – Their public website runs on Django, handling lots of content securely.
4. **Disqus** – Built its global comment system with Django, serving millions of users.
5. **Pinterest** – Uses Django to manage pins, boards, and personalized content delivery.

Question 3: When Should You Use Django?

Scenario A: You need a web app with multiple users.

Yes – Django has built-in tools for user accounts and permissions.

Scenario B: You want to build fast and make changes as you go.

Yes – Django's structure and database tools make it easy to update and grow your project.

Scenario C: You're building something very simple without a database.

No – Django is too complex for basic apps. Use something lighter like Flask.

Scenario D: You want full control over every part of your app.

Not ideal – Django has a set way of doing things. If you want to customize everything, Flask might be better.

Scenario E: You’re starting a big project and want support.

Yes – Django has great documentation and a huge community, so it’s easier to get help.

PART 2: TECHNICAL SETUP SCREENSHOTS

Screenshot 1: Python Version Verification

```
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE (Exercise-2.1)
$ python --version
Python 3.13.5
```

Screenshot 2: Virtual Environment Activated

```
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1 (Exercise-2.1)
$ source achievement2-practice/Scripts/activate
(achievement2-practice)
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1 (Exercise-2.1)
$ which python
/c/Users/ivanc/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1/achievement2-practice/Scripts/python
(achievement2-practice)
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1 (Exercise-2.1)
$
```

Screenshot 3: Django Installation Complete

```
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1 (Exercise-2.1)
$ which python
/c/Users/ivanc/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1/achievement2-practice/Scripts/python
(achievement2-practice)
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1 (Exercise-2.1)
$ python -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\ivanc\onedrive\documents\careerfoundry\python course\python_course\achievement 2\exercise 2.1\achievement2-practice\lib\site-packages (25.1.1)
Collecting pip
  Downloading pip-25.2-py3-none-any.whl.metadata (4.7 kB)
  Downloading pip-25.2-py3-none-any.whl (1.8 MB)
    1.8/1.8 MB 26.1 MB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 25.1.1
    Uninstalling pip-25.1.1:
      Successfully uninstalled pip-25.1.1
  Successfully installed pip-25.2
(achievement2-practice)
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1 (Exercise-2.1)
$ pip install django
Collecting django
  Downloading django-5.2.7-py3-none-any.whl.metadata (4.1 kB)
Collecting asgiref<=3.8.1 (from django)
  Downloading asgiref-3.10.0-py3-none-any.whl.metadata (9.3 kB)
Collecting sqlparse>=0.3.1 (from django)
  Downloading sqlparse-0.5.3-py3-none-any.whl.metadata (3.9 kB)
Collecting tzdata (from django)
  Downloading tzdata-2025.2-py2.py3-none-any.whl.metadata (1.4 kB)
  Downloading django-5.2.7-py3-none-any.whl (8.3 MB)
    8.3/8.3 MB 33.3 MB/s 0:00:00
  Downloading asgiref-3.10.0-py3-none-any.whl (24 kB)
  Downloading sqlparse-0.5.3-py3-none-any.whl (44 kB)
  Downloading tzdata-2025.2-py2.py3-none-any.whl (347 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.10.0 django-5.2.7 sqlparse-0.5.3 tzdata-2025.2
(achievement2-practice)
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1 (Exercise-2.1)
$ django-admin --version
5.2.7
(achievement2-practice)
ivanc@IECMLAP MINGW64 ~/OneDrive/Documents/careerfoundry/PYTHON COURSE/PYTHON_COURSE/ACHIEVEMENT 2/Exercise 2.1 (Exercise-2.1)
$
```