## 2. Why is Django so popular among web developers?

The biggest factor in Django's popularity has to do with the fact that it is simple to use. The ease of use factor combined with it's principal of rapid development and DRY philosophy allows developers to focus must of their efforts on the unique code and logic related to their application.

### 3. Five large companies that use Django, and why.

## Instagram

 Built on python because of it's practicality and simplicity. When it came time to scale, Django allowed developers to be able to focus on building custom tools.

#### National Geographic

 Django inherently eases the development of data-driven, complex websites which is exactly what National Geographic hosts. They are able to take advantage of django CMS (Content Management System) and rely on it heavily for the education page.

#### Mozilla

 They use Django to allow their browser Firefox to better handle large amounts of traffic and API hits efficiently and effectively.

#### Spotify

 Spotify's back-end services and data analysis are handled using Python. They have incorporated Django to increase functionality.

#### Pinterest

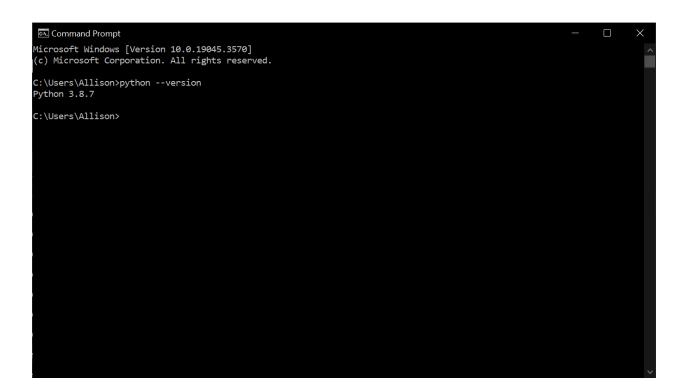
 They are able to take advantage of Django's open source capacity, allowing them to easily and quickly modify their framework for growing needs.

# 4. Explain if you should use Django for the following scenarios:

- You need to develop a web application with multiple users.
  - Yes Django would be good here, as it is built with security in mind. Built-in automated encryption would make it easy to keep your user's data secure.
- You need fast deployment and the ability to make changes as you proceed.
  - Yes Django's MVT architecture ensures that development can be fast and easy.
- You need to build a very basic application, which doesn't require any database access or file operations.
  - No Django is not the best option for simple projects, and since database access is not needed here Django is not the right choice

- You want to build an application from scratch and want a lot of control over how it works.
  - No Django is a highly structured framework and requires that things be done the
     "Django Way". If you want a lot of control than Django is not the right choice.
- You're about to start working on a big project and are afraid of getting stuck and needing additional support.
  - Yes Django is great for scalability and large projects. Additionally, Django is open source with a huge community of supporters, making it easy to find support when you need it.

## 5. Python version screenshot



#### 7. Virtual environment screenshot



## 8. Django installation screenshot

```
👞 Command Prompt
                                                                                                                                                                                                                                                               :\Users\Allison\Documents\careerfoundry>cd django-code-prac
   :\Users\Allison\Documents\careerfoundry\django-code-prac>mkvirtualenv achievement2-practice
   reated virtual environment CPython3.8.7.final.0-64 in 1020ms
creator CPython3Windows(dest=C:\Users\Allison\Envs\achievement2-practice, clear=False, no_vcs_ignore=False, global=Fal
    seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_data_dir=C:\Users\Alliso
   \AppData\Local\pypa\virtualenv)
added seed packages: pip==23.2.1, setuptools==68.0.0, wheel==0.41.0
     activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator
   achievement2-practice) C:\Users\Allison\Documents\careerfoundry\django-code-prac>py -m pip install Django
   ollecting Django
  Obtaining dependency information for Django from https://files.pythonhosted.org/packages/b9/45/707dfc56f381222c1c79850
3546cb390934ab246fc45b5051ef66e31099c/Django-4.2.6-py3-none-any.whl.metadata
Using cached Django-4.2.6-py3-none-any.whl.metadata (4.1 kB)
Collecting asgiref<4,>=3.6.0 (from Django)
Obtaining dependency information for asgiref<4,>=3.6.0 from https://files.pythonhosted.org/packages/9b/80/b9051a4a07ad
231558fcd8ffc89232711b4e618c1b27a392a17384bbeef/asgiref-3.7.2-py3-none-any.whl.metadata
 231558fcd8ffc89232711b4e618c15cb7a392a17384bbeef/asgiref-3.7.2-py3-none-any.whl.metadata
Using cached asgiref-3.7.2-py3-none-any.whl.metadata (9.2 kB)
Collecting sqlparse>=0.3.1 (from Django)
Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
Collecting backports.zoneinfo (from Django)
Using cached backports.zoneinfo-0.2.1-cp38-cp38-win_amd64.whl (38 kB)
Collecting tzdata (from Django)
Using cached tzdata-2023.3-py2.py3-none-any.whl (341 kB)
Collecting typing-extensions>=4 (from asgiref<4,>=3.6.0->Django)
Obtaining dependency information for typing-extensions>=4 from https://files.pythonhosted.org/packages/24/21/7d397a4b7
934ff4028987914ac1044d3b7d52712f30e2ac7a2ae5bc86dd0/typing_extensions-4.8.0-py3-none-any.whl.metadata
Using cached typing extensions-4.8.0-py3-none-any.whl.metadata (3.0 kB)
934f+4028987914ac1044d307d52712f30e2ac7a2ae5bc86dd0f/typing_extensions-4.8.0-py3-none-any.whl.metadata
Using cached typing_extensions-4.8.0-py3-none-any.whl.metadata (3.0 kB)
Using cached Django-4.2.6-py3-none-any.whl (8.0 MB)
Using cached asgiref-3.7.2-py3-none-any.whl (24 kB)
Using cached typing_extensions-4.8.0-py3-none-any.whl (31 kB)
Installing collected packages: tzdata, typing-extensions, sqlparse, backports.zoneinfo, asgiref, Django
Successfully installed Django-4.2.6 asgiref-3.7.2 backports.zoneinfo-0.2.1 sqlparse-0.4.4 typing-extensions-4.8.0 tzdata
   2023.3
                ] A new release of pip is available: 23.2.1 -> 23.3
] To update, run: python.exe -m pip install --upgrade pip
   achievement2-practice) C:\Users\Allison\Documents\careerfoundry\django-code-prac>django-admin --version
   achievement2-practice) C:\Users\Allison\Documents\careerfoundry\django-code-prac>_
```