# **Exercise 2.1: Getting Started with Django - Task**

## Write two to three sentences on why Django is so popular among web developers:

Django is suitable for small and large Projects, especially when thy have a database, must handle large amount of data or a lot of traffic. It simple enough for small projects but easily scalable for larger projects and therefore is so popular among web developers.

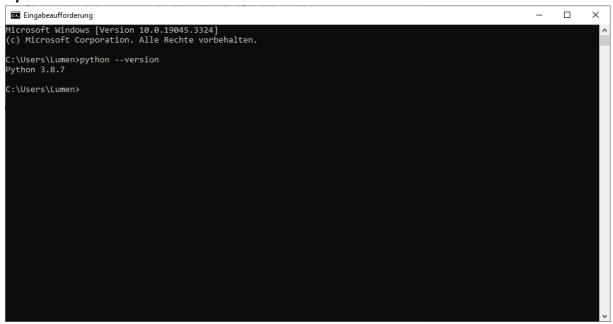
List five large companies that use Django. Specify what the company's product or service is and what they use Django for.

- 1. Instagram: Instagram is the largest deployment of Django framework. They use it to share photos and videos, which is their main business. Django helped them to scale up and run their services more efficient.
- 2. Mozilla: Mozilla is the non-profit organization behind the famous browser Firefox. They use Django to handle large amount of traffic and handle API calls in an efficient way.
- 3. Spotify: Spotify is a music streaming platform. Spotify uses Django for some backend services and data analysis and to increase functionality.
- 4. Eventbrite: Eventbrite is an event platform and ticketing service. They migrated to Django in 2010 in order to get a more feature-rich and vibrant community.
- 5. Pinterest: Pinterest is an image platform like Instagram. Pinterest use Django for its user-friendly interface and they modify the framework for their needs.

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.
  - Yes, I would use Django because its perfect suitable for storing and retrieving the users from the database and handle the authentication.
- You need fast deployment and the ability to make changes as you proceed. This is perfect suitable for Django since Django exactly supports that.
- You need to build a very basic application, which doesn't require any database access or file operations.
  - I would not use Django, since there is no need to use it in this scenario
- You want to build an application from scratch and want a lot of control over how it works.
  - I would not use Django since Django brings in a lot of pre-written functionality. In order to have a lot of control and build something from scratch you better build it yourself.
- You're about to start working on a big project and are afraid of getting stuck and needing additional support.
  - I would use Django, since its perfectly suitable for large projects.

## **Python version:**



#### **Activated virtual environment:**

```
D:\Web Development\Python Specialization>cd Projects

D:\Web Development\Python Specialization\Projects>mkvirtualenv achievement2-practice
created virtual environment CPython3.8.7.final.0-64 in 6844ms
creator CPython3Windows(dest=C:\Users\Lumen\Envs\achievement2-practice, clear=False, no_vcs_ignore=False, global=False)
) seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_data_dir=C:\Users\Lumen\AppData\Local\pypa\virtualenv)
    added seed packages: pip==23.2.1, setuptools==68.0.0, wheel==0.41.2
    activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator
(achievement2-practice) D:\Web Development\Python Specialization\Projects>
```

#### Installation and version of Django:

```
(achievement2-practice) D:\Web Development\Python Specialization\Projects>py -m pip install Django
Collecting Django
Obtaining dependency information for Django from https://files.pythonhosted.org/packages/7f/9e/fc6bab255ae10bc57fa2f65
646eace3d5405fbb7f5678b90140052d1db0f/Django-4.2.4-py3-none-any.whl.metadata
Downloading Django-4.2.4-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
231558fcd8ffc8923271b4e618c15cb7a392a1738dbbeef/asgiref-3.7.2-py3-none-any.whl.metadata
Downloading asgiref-3.7.2-py3-none-any.whl metadata (9.2 kB)
Collecting sqlpanse>-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 typing-extensions>=4 (from asgiref<4,>=3.6.0-DJango)
Using cached tydata-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/ec/6b/63cc3df74
987c36fe26157ee12e09e8f9db4e771e0f3404263117e75b95/typing_extensions-4.7.1-py3-none-any.whl metadata (3.1 kB)
Using cached Django-4.2.4-py3-none-any.whl (24 kB)
Using cached Django-4.2.4-py3-none-any.whl (24 kB)
Using cached bjango-4.2.4-py3-none-any.whl (38 kB)
Installing collected packages: tzdata, typing-extensions, sqlparse, backports.zoneinfo, asgiref, Django
Successfully installed Django-4.2.4 asgiref-3.7.2 backports.zoneinfo-0.2.1 sqlparse-0.4.4 typing-extensions-4.7.1 tzdata-2023.3

(achievement2-practice) D:\Web Development\Python Specialization\Projects>django-admin --version
4.2.4

(achievement2-practice) D:\Web Development\Python Specialization\Projects>
```