

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

Django is popular among web developers because of its "batteries included" framework meaning the essentials for effective development are immediately available. It also offers a high level of abstraction (simplifying complex systems by breaking them down), has well developed security features and extensive documentation available for support or when issues arise.

- **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.**

#### **Company 1: Eventbrite**

Company's product/service: A platform for online event management and ticketing platform

Django use: build and maintain web infrastructure (e.g event listings)

#### **Company 2: Pinterest**

Company's product/service: A platform where users can discover and/or save ideas.

Django use: handling web components including user authentication and content management

#### **Company 3: Instagram**

Company's product/service: A social media platform for sharing videos and photos.

Django use: to handle user accounts, profiles and interactions

#### **Company 4: Spotify**

Company's product/service: music streaming service

Django use: handling backend services - parts of its website and content management

#### **Company 5: Mozilla**

Company's product/service: web browsers

Django use: manages high volume of daily search queries

### **1 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 would use Django in this case because it is a good choice when developing a web application with multiple users due to its authentication and security.

- **You need fast deployment and the ability to make changes as you proceed.**

I would use Django in this case because it is suited for rapid development and has the flexibility to customise and extend functionality.

- **You need to build a very basic application, which doesn't require any database access or file operations.**

I would not use Django in this case because a very basic application is needed, and it will not use the core feature of Django so other options will be more beneficial.

- **You want to build an application from scratch and want a lot**

**of control over how it works.**

I would not use Django in this case because building an application from scratch will not use all the beneficial features in Django. A micro-framework would be more beneficial in this case.

- **You're about to start working on a big project and are afraid of getting stuck and needing additional support.**

I would use Django in this case because it's built-in tools and libraries would be of great benefit for a big project.

## Python

```
gabriellemeeek@Gabrielles-Air ~ % python3 -V
Python 3.8.7
gabriellemeeek@Gabrielles-Air ~ %
```

## Virtual Environment

```
gabriellemeeek@Gabrielles-Air achievement 2 % mkvirtualenv web-dev
created virtual environment CPython3.8.7.final.0-64 in 446ms
  creator CPython3Posix(dest=/Users/gabriellemeeek/.virtualenvs/web-dev, clear=False, no_vcs_ignore=False, global=False)
  seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_data_dir=/Users/gabriellemeeek/Library/
Application Support/virtualenv)
    added seed packages: pip==23.2.1, setuptools==68.2.2, wheel==0.41.2
  activators BashActivator,CShellActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator
virtualenvwrapper.user_scripts creating /Users/gabriellemeeek/.virtualenvs/web-dev/bin/predeactivate
virtualenvwrapper.user_scripts creating /Users/gabriellemeeek/.virtualenvs/web-dev/bin/postdeactivate
virtualenvwrapper.user_scripts creating /Users/gabriellemeeek/.virtualenvs/web-dev/bin/preactivate
virtualenvwrapper.user_scripts creating /Users/gabriellemeeek/.virtualenvs/web-dev/bin/postactivate
virtualenvwrapper.user_scripts creating /Users/gabriellemeeek/.virtualenvs/web-dev/bin/get_env_details
(web-dev) gabriellemeeek@Gabrielles-Air achievement 2 %
```

## Django

```
(web-dev) gabriellemeeek@Gabrielles-Air achievement 2 % django-admin --version
4.2.6
```