

2. Django is popular because, while it can sometimes be a challenge, the fixed structure takes work off developers because of the amount of code that is built in. It also is popular for its scalability which allows to developers to easily add new components. Finally, it also allows for fast development and fast processing.

3. One way that Instagram uses Django is for Sentry, its error-reporting app.

Spotify uses Django for its backend services and data analysis. It's used to create the algorithms that recommend music to users.

Eventbrite is built with Django to manage events, user registration for events, and event promotion.

National Geographic uses Django for its content management system.

Prezi also uses Django for its CMS.

4. a) Django would be useful because it is good for applications using the front and back end

b) Django allows for fast deployment and making changes, so it would be a good fit

c) Django is not a good fit for basic applications without databases

d) Django is not a good fit if you want a lot of control or to build an app from scratch because it has a very firm structure

e) Django is a good fit for big projects, and there is a community to provide support, so it would be a good fit for this kind of project

5.

```
→ python-recipe-app git:(master) python3 --version
Python 3.11.3
```

7.

```
→ python-recipe-app git:(master) mkvirtualenv achievement2-practice
created virtual environment CPython3.8.16.final.0-64 in 1216ms
creator CPython3Posix(dest=/Users/sarahjenkins/.virtualenvs/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=/Users/sarahjenkins/Library/Application Support/virtualenv)
added seed packages: pip==22.3.1, setuptools==66.0.0, wheel==0.38.4
activators BashActivator,CShellActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator
virtualenvwrapper.user_scripts creating /Users/sarahjenkins/.virtualenvs/achievement2-practice/bin/predeactivate
virtualenvwrapper.user_scripts creating /Users/sarahjenkins/.virtualenvs/achievement2-practice/bin/postdeactivate
virtualenvwrapper.user_scripts creating /Users/sarahjenkins/.virtualenvs/achievement2-practice/bin/preactivate
virtualenvwrapper.user_scripts creating /Users/sarahjenkins/.virtualenvs/achievement2-practice/bin/postactivate
virtualenvwrapper.user_scripts creating /Users/sarahjenkins/.virtualenvs/achievement2-practice/bin/get_env_details
(achievement2-practice) → python-recipe-app git:(master)
```

8.

```
(achievement2-practice) → python-recipe-app git:(master) pip install django
Collecting django
  Using cached Django-4.2.1-py3-none-any.whl (8.0 MB)
Collecting backports.zoneinfo
  Using cached backports.zoneinfo-0.2.1-cp38-cp38-macosx_10_14_x86_64.whl (35 kB)
)
Collecting sqlparse>=0.3.1
  Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
Collecting asgiref<4,>=3.6.0
  Using cached asgiref-3.6.0-py3-none-any.whl (23 kB)
Installing collected packages: sqlparse, backports.zoneinfo, asgiref, django
Successfully installed asgiref-3.6.0 backports.zoneinfo-0.2.1 django-4.2.1 sqlpa
rse-0.4.4

[notice] A new release of pip available: 22.3.1 -> 23.1.2
[notice] To update, run: pip install --upgrade pip
(achievement2-practice) → python-recipe-app git:(master) django-admin --version
4.2.1
```