

Exercise 2.1

2. Django is a popular lightweight framework used with Python. It is often used by developer for its scalability and its MVT architecture. Django use reusable design pattern and follows a DRY concept.

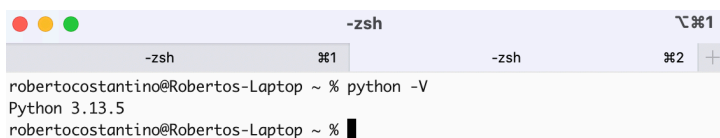
3. Five companies that use Django are:

- Instagram (social media platform) Backend built with Django for tis scalability and high traffic handling.
- Pinterest (social media platform) Part of backend uses Django for serving a big database of images.
- Spotify (music streaming service) Django used for web back end services. It helps manage user account and integrate API for delivering user preferences and tracking activity.
- Dropbox (cloud storage and file-sharing) It uses Django for its server side logic and API layer.
- Mozilla (software organisation) Used for web facing services.

4.

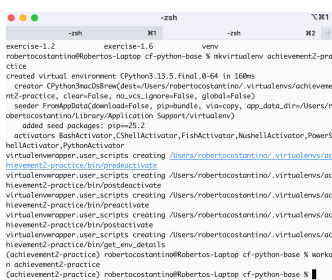
- For this potion I would go with Django as I can manage better the data informations coming from the multiple users.
- Also Django, has it has a great scalability and allows you to make improvements and changes during the process.
- In this case I wouldn't go for Django as it is very server-intensive
- Wouldn't go for Django because of its architecture and its way of processing thing is not recommendable for developer who wants to have a lot of control on how it works.
- Django has a very good community of contributors that makes it easy to get support.

5.



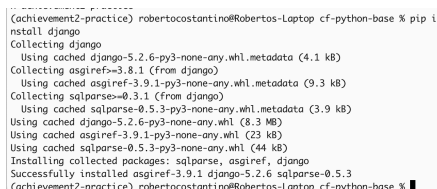
```
robertocostantino@Robertos-Laptop ~ % python -V
Python 3.13.5
robertocostantino@Robertos-Laptop ~ %
```

6.



```
exercise-1.2 exercise-1.6 venv
robertocostantino@Robertos-Laptop cf-python-base % mkvirtualenv achievement2-pra
ctice
created virtual environment (Python3.13.5.final.0-64 in 160ms
creator Python3MacOS9MacOSUsers/robertocostantino/virtualenvs/achieve
ment2-practice, clean=False, no_vcs_ignore=False, global=False)
seeder FromAppData(download=False, pipbundle, vlocopy, app_data_dir~/Users/r
obertocostantino/Library/Application Support/virtualenv)
added seed packages: pip=25.2
activators BashActivator,ShellActivator,FishActivator,NushellActivator,PowerS
hellActivator,PythonActivator
virtualenvwrapper.user_scripts creating /Users/robertocostantino/virtualenvs/ac
hivement2-practice/bin/postactivate
virtualenvwrapper.user_scripts creating /Users/robertocostantino/virtualenvs/ac
hivement2-practice/bin/postdeactivate
virtualenvwrapper.user_scripts creating /Users/robertocostantino/virtualenvs/ac
hivement2-practice/bin/preactivate
virtualenvwrapper.user_scripts creating /Users/robertocostantino/virtualenvs/ac
hivement2-practice/bin/predeactivate
virtualenvwrapper.user_scripts creating /Users/robertocostantino/virtualenvs/ac
hivement2-practice/bin/getenv_details
(achievement2-practice) robertocostantino@Robertos-Laptop cf-python-base % worko
n achievement2-practice
(achievement2-practice) robertocostantino@Robertos-Laptop cf-python-base %
```

7.



```
(achievement2-practice) robertocostantino@Robertos-Laptop cf-python-base % pip i
nstall django
Collecting django
  Using cached django-5.2.6-py3-none-any.whl.metadata (4.1 kB)
Collecting asgiref<3.8.1, (from django)
  Using cached asgiref-3.9.1-py3-none-any.whl.metadata (9.3 kB)
Collecting sqlparse<0.3.1, (from django)
  Using cached sqlparse-0.5.3-py3-none-any.whl.metadata (3.9 kB)
Using cached django-5.2.6-py3-none-any.whl (8.3 MB)
Using cached asgiref-3.9.1-py3-none-any.whl (23 kB)
Using cached sqlparse-0.5.3-py3-none-any.whl (44 kB)
Installing collected packages: sqlparse, asgiref, django
Successfully installed asgiref-3.9.1 django-5.2.6 sqlparse-0.5.3
(achievement2-practice) robertocostantino@Robertos-Laptop cf-python-base %
```

8.