Task Questions

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

   Django's architecture makes it fast and easy to develop with; this, combined with the fact that it utilizes python, which is very legible and hosts a lot of powerful computation capabilities, makes it an easy pick for many developers. On top of all that, Django has been built for both scalability and security, and it's also accrued a large community over the users, meaning support is very easy to get a hold of.

2. 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.

   YouTube and **Instagram** are two very large companies that have used Django for very obvious purposes when you consider what their platforms are built upon. For the both of them, as they grew larger, they needed to serve more and more data and continually scale their respective applications up to meet demands. To this end, Django offered great scalability and the ability to process data very quickly for rapid content delivery. **Dropbox** worked with python from the start, but added Django to the mix so that they could continue developing additional features for their site, powered by Django. In **Mozilla's** case, they needed to upgrade their current technology stack, and switching to Python and Django allowed them to more efficiently handle all the traffic they were seeing daily. Django also now powers Mozilla's support sites and addons. **Eventbrite** is a company with a story that, in my research, seems to be shared between a lot of companies, both startups and tech giants. Scalability has been a major determining factor for these companies, and time and time again it seems that Django simply offers the best option when it comes to both scalability and efficiency. Eventbrite made the switch in 2010 in order to more effectively handle their growing popularity, and it's only helped them succeed further.

3. 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. **USE** - Django is a web development framework, so it will be perfectly suited for developing web applications. It also boasts fast processing, so multiple users can easily use the app with little issue.
   - You need fast deployment and the ability to make changes as you proceed.
     i. **USE** - Django's architecture supports rapid development and deployment.
   - You need to build a very basic application, which doesn't require any database access or file operations.
     i. **DON'T USE** - While Django would likely still work, it comes with many features that likely wouldn't see use in such a small application, leading to bloat.
   - You want to build an application from scratch and want a lot of control over how it works.

- i. **DON'T USE** - Django is a batteries-included system: it has a specific way of working that you must adhere to, removing control of the finer details from your hands.
  - ○ You're about to start working on a big project and are afraid of getting stuck and needing additional support.
    - i. **USE** - Django offers great scalability, so it's very capable of handling development for a large app. Additionally, it's got a large community available and ready to assist in case of any problems.

Task Images

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(cf-python-base) C:\Users\jjuus\Documents\-Career Foundry\python-immersion\E1.7>python --version
Python 3.9.13
```

```
(achievement2-practice) C:\Users\jjuus\Documents\-Career Foundry\python-immersion>C:\Users\jjuus\Envs\achievement2-pract
ice\Scripts\activate.bat

(achievement2-practice) C:\Users\jjuus\Documents\-Career Foundry\python-immersion>()

(achievement2-practice) C:\Users\jjuus\Documents\-Career Foundry\python-immersion>if defined _OLD_VIRTUAL_PYTHONPATH (se
t "PYTHONPATH=" )  else (set "_OLD_VIRTUAL_PYTHONPATH=" )

(achievement2-practice) C:\Users\jjuus\Documents\-Career Foundry\python-immersion>
```

```
(achievement2-practice) C:\Users\jjuus\Documents\-Career Foundry\python-immersion>django-admin --version
4.2.14

(achievement2-practice) C:\Users\jjuus\Documents\-Career Foundry\python-immersion>
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