

## **Task 2.1 - Django Questions**

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

Django uses Python which is easy to read and has many useful libraries. It also has high scalability and fast development due to its MVT structure. In addition, it provides increased security through its built-in automated encryption.

**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.**

Instagram is a social media service that allows users to upload pictures online and to post messages. Django is used for its backend like user auth, data storage, and API development.

Spotify is a music streaming service. Django is used for its backend services and data analysis.

Dropbox is a file storage service that allows sharing of files between different users. Django is used for history options, sync between devices and add various types of file-sharing options.

NASA is a government agency responsible for space programs and research. Django is used for its multiple websites to scale for around a million daily users, provides strong security and supports high def videos.

Pinterest is an image sharing and social media service. Django is used to provide fast service to many users and allows users to follow each other, share pins and boards.

**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 due to its scalability and ability to provide fast service to lots of users.

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

I **would** use Django for its fast prototyping and development due to its MVT structure.

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

I **would not** use Django because it already comes setup with database access and file operations so if they are not needed, it might not make sense to use Django.

You want to build an application from scratch and want a lot of control over how it works.

I **would not** use Django as it is a batteries-included system and is very opinionated so it is not ideal if you want a lot of control.

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

I **would** use Django because it is open source and has a large community so finding support is easy.

**Download and install Python (if you haven't done so already).**

```
PS C:\Users\BPCE-3\Desktop\Apps\cf-python> python --version
Python 3.8.7
```

**If you haven't done so already, set up and create a virtual environment and name it `achievement2-practice`.**

```
C:\Users\BPCE-3\Desktop\Apps\cf-python>workon achievement2-practice
(achievement2-practice) C:\Users\BPCE-3\Desktop\Apps\cf-python>
```

**Install Django and verify the installation by checking the version.**

```
(achievement2-practice) C:\Users\BPCE-3\Desktop\Apps\cf-python>django-admin -
-version
4.2.6
```