

## Task 2.1

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

Django's ease of use, fast development, scalability, security, and strong community support are many of the reasons why it is a popular web framework.

It is also suitable for large or small projects.

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.

1. Instagram uses Django primarily for its backend functionality. This allows them to handle large volumes of user data and requests.

2. Pinterest uses Django to handle its backend as well. They use it for its security features as well.

3. Spotify uses Django for its backend. This allows them to manage their user authentication, handle payment processing, and content delivery.

4. The Onion uses Django to power its website and backend. Django's content management features makes it a good fit for the Onion.

5. NASA uses Django to power its data management and visualization tools. Django's scalability and flexibility makes it good for handling large volumes of data.

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.

Django would be a good choice for an application with multiple users because it has great built-in user management features. These features include handling user authentication and user management. Its great scalability and flexibility also allow it to handle large volumes of users.

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

Django works great if you need fast deployment and the ability to make changes because it allows developers to quickly build and deploy web applications, while also flexible to make changes. Django's use of the MVT architecture provides a clear and consistent structure that makes it easier to maintain and modify the application as it grows larger.

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

Django is not necessary for building this sort of basic application. Django is designed to handle complex web applications that have a bunch of features and functionality. For a simple application you would be better off using a simpler more lightweight

framework or library.

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

Django is a great source for building an application from scratch with also having a lot of control because it comes with a lot of built-in features and tools. The MVT architecture also helps the developer organize their code, which makes it easier for the developer to add onto the application as it grows.

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

Django is used by a lot of developers and has a very active community who are working to improve the framework. This allows the developers to get support when facing a problem. Django also has extensive documentation and tutorials available to help the developer get started and learn the framework's features.