

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

Django is popular among web developers for its simplicity, robustness, and scalability. Its built-in features, such as an ORM, authentication, and admin panel, streamline the development process, making it easier and faster to build complex web applications.

2. Five large companies that use Django include:

- **Instagram:** A social media platform for sharing photos and videos. Django is used for managing user accounts, content, and interactions.
- **Spotify:** A music streaming service. Django is used for various backend services, including user authentication and playlist management.
- **Pinterest:** A visual discovery engine for finding ideas like recipes, home, and style inspiration. Django is used for managing user data and content.
- **Dropbox:** A file hosting service that offers cloud storage, file synchronization, personal cloud, and client software. Django is used for managing user accounts and file operations.
- **Mozilla:** A global community that provides open-source software and tools. Django is used for various web applications and services.

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.

Yes, Django is suitable for developing a web application with multiple users. It provides built-in authentication and authorization features, making it easy to manage user accounts and permissions.

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

Yes, Django supports fast deployment and allows for making changes as you proceed. Its development server and built-in development tools help streamline the development process and facilitate quick iterations.

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

No, Django may not be necessary for building a very basic application that doesn't require any database access or file operations. Using a lightweight framework or library may be more appropriate for such a simple application.

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

It depends. Django provides a high level of control over how an application works, but it also comes with a lot of built-in features and conventions. If you prefer more flexibility and minimalistic approach, you may consider using a microframework like Flask.

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

Yes, Django provides comprehensive documentation, a large community, and many third-party packages, which can be helpful when working on a big project and needing additional support.