

Exercise 2.1

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

Django's popularity contains most of the essentials: additional plugins, user-friendly admin panels and authentication. The framework's precision and scalability enables quick development for large-scale projects.

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** uses Django to handle their large user base and to build custom tools.
- **Spotify** uses Django to ensure the functionality of the application for its users.
- **Mozilla** uses Django for Firefox and created an add-ons site for its user base.
- **YouTube** is entirely written with Django for its scalability and rapid development of new features.
- **Eventbrite** initially used Python and its frameworks, but then switched to Django when the company faced problems with scalability due to rapidly-growing user base.

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's user management system, along with its authorization and authentication capabilities, easily handles large-scale user bases.
- You need fast deployment and the ability to make changes as you proceed.
 - ◆ **Yes.** Django's libraries, reusable components and batteries-included approach makes it easy to rapidly prototype and develop quick-scaling projects. Due to its modular structure, the framework also has the capability to add and modify features without interfering with the whole application.
- You need to build a very basic application, which doesn't require any database access or file operations.
 - ◆ **No.** A basic application with no database activity doesn't require a full framework, or maybe none at all, to fulfill its needs.
- You want to build an application from scratch and want a lot of control over how it works.
 - ◆ **No.** Ultimately, Django's opinionated structure removes aspects of control from the developer. But, if the developer or team decides

that Django's other benefits outweigh total control, then it would be a good choice.

- You're about to start working on a big project and are afraid of getting stuck and needing additional support.
 - ◆ **Yes.** *In addition to Django's scalability, its vast community, which includes some major companies, could provide helpful feedback and ensure that the framework is consistently updated to meet its users' needs.*