## Exercise 2.1

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

Django is popular among web developers because it simplifies the process of creating backend web applications. It offers built-in tools such as authentication, an admin interface, and an Object-Relational Mapping (ORM) system. By handling many tasks that would typically consume a lot of development time, Django allows developers to concentrate more on the creative aspects of their projects.

1. 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 (Social media platform for sharing photos and videos)

Instagram uses Django for its backend. This helps them develop quickly, scale their services easily, and manage their large user database reliably.

2 Spotify (Music streaming and podcast platform)

Spotify uses Django to manage user accounts and recommendation systems, using its capability to handle large amounts of data.

3 Pinterest (Visual discovery engine for finding inspiration for projects, recipes, and more)

Pinterest uses Django for backend tasks, such as serving pins and managing user interactions, due to its scalability and flexibility.

4 Mozilla (Developer of web browsers (like Firefox) and open-source software)

Mozilla uses Django for different internal tools and websites that serve customers, taking advantage of how quickly it allows them to develop new features.

5 YouTube (Video-sharing and streaming platform)

YouTube uses Django for the backend of features like video content and user account management, benefiting from its reliability and integration capabilities.

1. You need to develop a web application with multiple users.
   * Use Django: Django is ideal for this scenario because it offers built-in user authentication, session management, and permission systems, making it easy to manage multiple users and their roles securely.
2. You need fast deployment and the ability to make changes as you proceed.
   * Use Django: Django promotes rapid development with its modular design, reusable components, and built-in admin interface, offering scalability and flexibility for easy adaptations.
3. You need to build a very basic application, which doesn’t require any database access or file operations.
   * Don't use Django: No, Django may be too much for a simple project, as it is designed for complex applications.
4. You want to build an application from scratch and want a lot of control over how it works.
   * Don't use Django: Django's structured framework speeds up development but can limit control for developers wanting complete customization.
5. You’re about to start working on a big project and are afraid of getting stuck and needing additional support.
   * Use Django: Django is a strong choice for large projects because of its extensive documentation, active community, and many third-party libraries, which offer excellent support for resolving issues quickly.

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