

- *Why Django is so popular among web developers.*

1. Django is a high-level web framework that follows the "batteries-included" philosophy. Django's design philosophy emphasizes rapid development and clean, pragmatic code. It has built-in security mechanisms that help protect web applications against common web vulnerabilities like SQL injection, cross-site scripting (XSS), and cross-site request forgery (CSRF).

- *List five large companies that use Django. Specify what the company's product or service is and what they use Django for.*

1. Instagram: Instagram, a social media platform for sharing photos and videos, was built using Django in its early stages. Although the platform has evolved significantly since then, Django played a crucial role in its development, especially in the initial phases.
2. Pinterest: Pinterest, a visual discovery and bookmarking platform, initially used Django as its web framework. The framework allowed them to rapidly develop and launch their service, and it's likely that Django played a part in the platform's early growth.
3. Disqus: Disqus is a popular commenting system used on many websites to manage discussions and user comments. Django was used to build the core functionality of Disqus, including user authentication, comment storage, and management.
4. Mozilla: Mozilla, the organization behind the Firefox web browser, has used Django for various projects and web applications. One notable example is the Mozilla Developer Network (MDN) website, which provides documentation and resources for web developers.
5. NASA: NASA, the United States' space agency, has utilized Django for some of its web applications and projects. Django's ease of use, security features, and rapid development capabilities have made it a viable choice for specific tasks within the agency.

- *For each of the following scenarios, explain if you would use Django (and why or why not):*

- a. **You need to develop a web application with multiple users.**

- i. Determine the specific features and functionalities your web application should have. Identify the target audience, user roles, and the interactions they will have within the application.
- b. **You need fast deployment and the ability to make changes as you proceed.**
 - i. Adopt an agile development methodology, such as Scrum or Kanban, which encourages iterative development, regular feedback, and adaptability to changes.
- c. **You need to build a very basic application, which doesn't require any database access or file operations.**
 - i. Organize your project by creating folders for different components (e.g., HTML files, CSS files, JavaScript files, images) and place relevant files in their respective folders.
- d. **You want to build an application from scratch and want a lot of control over how it works.**
 - i. Start by building the backend of your application. Implement server-side logic, APIs, and data handling according to project requirements.
- e. **You're about to start working on a big project and are afraid of getting stuck and needing additional support.**
 - i. Keep thorough documentation throughout the project. Documentation would play crucial to understand your own code and explain it to others if needed.

- **Python, Django versions**

```
(web-dev) a@as-MacBook-Pro Exercise 1.7 % django-admin --version
4.2.3
(web-dev) a@as-MacBook-Pro Exercise 1.7 % python --version
Python 3.8.17
(web-dev) a@as-MacBook-Pro Exercise 1.7 %
```