

QUESTION 1

Why is Django so popular among web developers?

Django is popular among web developers because it enables fast and secure development through its batteries-included approach. It provides built-in features such as authentication, database management, and an admin interface, allowing developers to focus on application logic instead of repetitive tasks. Additionally, Django is highly scalable and supported by a large, active community.

QUESTION 2

Five large companies that use Django

1. **Instagram** – A social media platform for sharing photos and videos. Django is used to manage backend logic, user authentication, and database operations at scale.
2. **Pinterest** – A visual discovery platform. Django is used to handle large amounts of user-generated content and backend services.
3. **Mozilla** – An open-source software organization. Django is used for several web services and content management systems.
4. **Disqus** – A blog commenting platform. Django is used to manage user interactions, comments, and moderation features.
5. **Bitbucket** – A Git-based code hosting service. Django is used to support backend services and web interfaces.

QUESTION 3

Explain whether you would use Django in the following scenarios

Scenario 1

You need to develop a web application with multiple users.

Yes, Django would be a good choice because it provides built-in user authentication, session management, and security features, which are essential for multi-user applications.

Scenario 2

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

Yes, Django is well suited for this scenario because its MVT architecture and built-in tools allow for rapid development, prototyping, and easy updates during the development process.

Scenario 3

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

No, Django would not be ideal in this case because it is a full-featured framework and would add unnecessary complexity and overhead to a very simple application.

Scenario 4

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

No, Django may not be the best choice because it follows a strict structure and enforces the "Django way," which limits low-level control over application internals.

Scenario 5

You're starting a big project and are afraid of getting stuck and needing additional support.

Yes, Django is an excellent choice because it has extensive documentation and a large, active community, making it easy to find support and solutions when problems arise.