Exercise 2.1 Maggie Long 07/26/2024

> Django is popular among web developers because it provides a high-level framework that encourages rapid development and clean, pragmatic design. Its built-in features, such as an admin interface, authentication, and ORM, simplify the development process, allowing developers to focus on writing the unique aspects of their application.
> Additionally, Django follows the "batteries-included" philosophy, offering a wide range of tools out-of-the-box.

2.

List Five Large Companies That Use Django

Research and Answer Example:

- 1. **Instagram**: A social media platform that uses Django for handling a large number of user interactions and to scale efficiently.
- 2. **Spotify**: A music streaming service that uses Django to manage its backend services and APIs.
- 3. **Pinterest**: A visual discovery and bookmarking tool that uses Django to handle its user management and content management systems.
- 4. **The Washington Post**: A major American daily newspaper that uses Django for its content management system to manage and deliver news articles.
- 5. **Mozilla**: The organization behind the Firefox browser, which uses Django to build and maintain several of its web services and support systems.

3.

Scenarios: Explain If You Would Use Django

Scenario 1: Developing a Web Application with Multiple Users Answer: Yes, I would use Django because it has built-in support for user authentication, session management, and permissions, making it ideal for handling multiple users securely and efficiently.

Scenario 2: Fast Deployment and Ability to Make Changes as You Proceed Answer: Yes, Django is suitable for this scenario because its modular design and built-in features allow for rapid development and easy modifications. Its robust admin interface also aids in quick deployment and management.

Scenario 3: Building a Very Basic Application Without Database Access or File Operations Answer: No, Django might be overkill for a very basic application that doesn't require a database or file operations. A simpler framework like Flask, which has fewer built-in features and is more lightweight, would be more appropriate.

Scenario 4: Building an Application from Scratch with a Lot of Control Answer: No, while Diango is powerful, it imposes certain conventions and structures. For maximum control and

flexibility, a microframework like Flask would be better, as it allows you to choose your components and structure your application without predefined patterns.

Scenario 5: Starting a Big Project and Needing Additional Support Answer: Yes, Django is a good choice because it has a large, active community and extensive documentation. This support network can be invaluable when working on a large project and needing help with issues or guidance on best practices.