

Part 3:

We discussed the disadvantages of a monolith. We also looked at component based architecture (modular monolith) and microservice architecture. Explain clearly when would you choose a modular monolith and when would you choose microservice architecture.

Choose Modular Monolith when:

- The application is small to medium in complexity.
- You want simple deployment and lower operational overhead.
- Tight coupling between components is acceptable.
- Development is in the early stages, with a small team.

Choose Microservices when:

- You need scalability, independent service deployment, or resilience.
- The system is complex with multiple domains or large teams.
- You want the flexibility to use different technologies for different services.
- High availability and fault isolation are critical.