.NET Interview Questions

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Dependency Injection

1.1 Singleton

- Only one instance is available throughout the lifetime of the application
- Good for services which don't need to be recreated and can share their state
- Use cases
  - Configuration objects
  - Logging services connection pools mechanisms

1.2 Scoped

- Created once per request and disposed when the request ends.
- Use cases
  - Entity Framework DbContext
  - Services which track session data

1.3 Transient

- Created **each time it is requested**
- Ideal for lightweight, stateless objects
- Use cases
  - Data Transformers, Validators, Mappers
  - Short-lives services which need to be frequently created