

Clean Code Development

General rules:

- Follow a consistent coding style.
- Use version control for tracking changes.
- Keep code DRY (Don't Repeat Yourself).

Design rules:

- Follow SOLID principles for object-oriented design.
- Use appropriate design patterns.
- Ensure modularity and separation of concerns.

Understandability tips:

- Write self-documenting code.
- Use meaningful variable and function names.
- Provide clear and concise comments when necessary.

Names rules:

- Choose descriptive and meaningful names for variables and functions.
- Avoid single-letter variable names unless in a short scope.
- Follow a consistent naming convention.

Functions rules:

- Keep functions small and focused (Single Responsibility Principle).
- Limit the number of parameters in a function.
- Use clear and descriptive function signatures.

Comments rules:

- Write comments for complex or non-obvious code sections.
- Avoid redundant or unnecessary comments.
- Keep comments up-to-date with code changes.

Tests:

- Write comprehensive unit tests.
- Use test-driven development (TDD) when applicable.
- Ensure test coverage for critical functionality.

Code smells:

- Avoid code duplication.
- Refactor long methods or classes.
- Address any code that violates SOLID principles.