SPECKIT PLUS

Overview

SpecKit Plus is a **specification-driven development system** designed for AI-Native software engineering. It structures the entire development process into clear phases so that AI agents (and humans) can produce consistent, high-quality, maintainable software.

The workflow is divided into **5 phases**, each building on the previous one:

1. **Constitution**
2. **Specify**
3. **Plan**
4. **Tasks**
5. **Implement**

This ensures clarity from idea → specification → architecture → task breakdown → final implementation.

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1. Constitution Phase

The Constitution is the **rulebook** of the project.

Purpose

- Set project-wide standards
- Ensure consistency across all features
- Provide rules that AI agents must follow

What It Contains

- Coding standards
- Testing requirements
- Documentation style
- Architectural constraints
- Error-handling rules
- Security guidelines

Why It Matters

A strong constitution ensures every future step (spec, plan, tasks, implementation) maintains **quality, clarity, and discipline**.

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2. Specify Phase

The Specify phase defines **what** the feature must do.

Purpose

- Capture the idea in structured form
- Provide a clear understanding before designing or coding

What It Includes

- Functional requirements
- User stories / acceptance criteria
- Inputs & outputs
- Edge cases
- Non-functional requirements

- Constraints

Output

A clearly written **specification document** used by planners and AI agents.

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3. Plan Phase

The Plan phase answers **how** the feature will work.

Purpose

- Convert the specification into technical architecture
- Decide the exact way the feature should be built

What It Includes

- Architecture layout
- Data models
- API designs / contracts
- Dependencies
- Integration points
- Research notes

Output

A complete **plan document** that guides task creation and implementation.

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4. Tasks Phase

The Tasks phase breaks the plan into **small, executable steps**.

Purpose

- Convert plan into actionable units
- Make implementation predictable and structured

What It Includes

- Task list with descriptions
- File paths to generate
- Dependencies between tasks
- Test tasks (if following TDD)
- Parallel tasks if possible

Output

A complete, ordered **task list** ready for execution.

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5. Implement Phase

The Implement phase is where the actual coding happens.

Purpose

- Execute all the tasks
- Generate working code, tests, and docs

Key Activities

- AI agents create files and code

- Tests are written and executed
- Code follows the Constitution + Plan
- Contracts and architecture are implemented precisely

Output

Production-ready:

- Codebase
- Tests
- Documentation
- Working feature

Final Summary

SpecKit Plus provides a **top-to-bottom structured pipeline** for building modern AI-Native software:

- **Constitution** sets the rules.
- **Specify** defines the feature.
- **Plan** builds the architecture.
- **Tasks** break it into steps.
- **Implement** builds the actual software.

Together, these phases create a clean, reliable development workflow that AI agents can consistently follow to produce high-quality applications.