

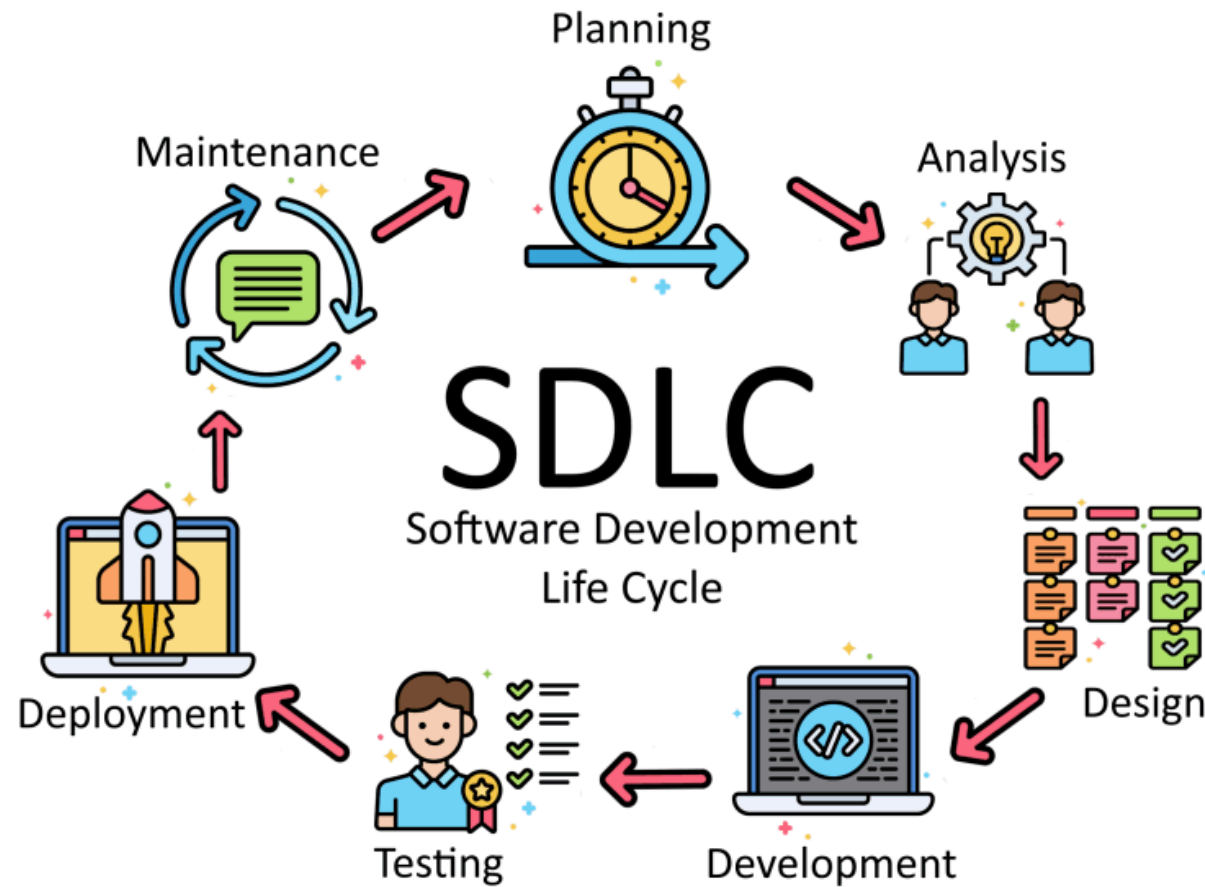


AI SINGAPORE

BMAD-METHOD™

DataOps Team

Software Development Life Cycle (SDLC)



What is BMAD-METHOD™?

- Breakthrough Method for Agile AI Driven Development
 - A revolutionary framework that combines:
 - **Agentic Planning:** Specialized AI agents collaborate to create comprehensive product documentation
 - **Context-Engineered Development:** Hyper-detailed stories with embedded implementation guidance
- “Eliminates planning inconsistency and context loss in development”

Two-Phase Workflow

Phase 1: Planning

1. Research & Analysis
2. Project Brief Creation
3. Product Requirements Document
4. System Architecture
5. Document Alignment

Phase 2: Development (IDE)

1. Story Creation from Epics
2. Context-Engineered Implementation
3. Validation & Testing
4. Iterative Refinement

[See the complete workflow in the User Guide](#)

BMAD™ Architecture

```
.bmad-core/  
├── agents/           # AI personas (PM, Architect, Developer)  
├── agent-teams/      # Pre-configured agent bundles  
├── tasks/            # Executable workflows  
├── templates/        # Document templates (PRD, Architecture)  
├── checklists/       # Quality gates  
├── workflows/        # Interaction sequences  
├── data/             # Knowledge base  
├── utils/            # Helper utilities  
└── bmad-core/        # Core framework files
```

Official Repository: <https://github.com/bmad-code-org/BMAD-METHOD/>

BMAD™ Agents

1. **Analyst:** Market research, brainstorming, competitive analysis, project briefs
2. **PM:** PRDs, product strategy, feature prioritization, roadmaps, stakeholder communication
3. **Architect:** System design, architecture docs, technology selection, API design, infrastructure
4. **PO:** Backlog management, story refinement, acceptance criteria, sprint planning
5. **SM:** Story creation, epic management, retrospectives, agile process guidance
6. **Dev:** Code implementation, debugging, refactoring, development best practices
7. **QA:** Code review, refactoring, test planning, quality assurance, mentoring
8. **UX Expert:** UI/UX design, wireframes, prototypes, front-end specs, user experience
9. **BMAD™ Master:** Cross-domain expertise, one-off tasks, general purpose agent
10. **BMAD™ Orchestrator:** Workflow coordination, multi-agent tasks, role switching guidance

6

Templates & Project Types

Document Templates

- **Project Brief Template:** Initial planning
- **PRD Template:** Product requirements
- **Architecture Template:** System design
- **Story Template:** Development tasks

Project Types

- **Greenfield (new projects):** UI, Service, FullStack
- **Brownfield (existing codebases):** UI, Service, FullStack

Context-Engineered Stories

Traditional Story

As a user, I want to login. So that I can access my account

BMAD™ Story

Story: User Authentication Implementation

Context

- Architecture: Microservices with JWT
- Tech Stack: React, Node.js, PostgreSQL
- API Endpoints: POST /auth/login
- Database Schema: users table (id, email, password_hash)

Implementation Details

[Full technical specifications embedded]

Acceptance Criteria

[Detailed test scenarios]

Universal Applications

Beyond Software Development

- **Business Strategy:** Strategic planning with Business Analyst agent
- **Creative Writing:** Story development with Writer agent
- **Research Projects:** Academic planning with Researcher agent
- **Game Development:** RPG campaigns with Game Master agent

The framework adapts to any structured creative process!

Getting Started

1. Install BMAD-METHOD™

```
npx bmad-method@4.40.0 install
```

2. Start with BMAD™ Analyst Agent

```
/BMad:agents:analyst  
*help
```

3. Create your first document

```
*brainstorm {topic}
```

4. Follow the workflow!

10

Advanced Features

Codebase Flattener

Converts entire projects to AI-consumable XML:

```
npx bmad-method flatten --input ./src --output project.xml
```

Good Practices

Practice 1: Complete Planning Phase

Always complete PRD and Architecture before development

Practice 2: Manage Context Effectively

Keep stories focused on single features

Practice 3: Leverage Agent Specialization

Use the right agent for each task

Key Takeaways

1. **BMAD-METHOD™** = Agentic Planning + Context Engineering
2. **Two-phase workflow** ensures comprehensive planning
3. **Specialized agents** provide domain expertise
4. **Templates & checklists** maintain quality
5. **Universal framework** adapts to any domain
6. **Community-driven** evolution and support

BMAD-METHOD™ in AI Singapore

BMAD™ AI/ML Engineering Expansion Pack:

- AI Singapore specialized agents
- AI Singapore program-specific workflows (MVP, POC, SIP, LADP)
- Specialized templates for ML/LLM development
- Unified AI security, ethics, and governance

BMAD-METHOD™ in AI Singapore (2)

Agents:

- ML/AI Engineer & MLOps Specialist (ml-engineer)
- ML/AI System Architect (ml-architect)
- Senior Data Scientist (ml-data-scientist)
- ML Security & Ethics Specialist (ml-security-ethics-specialist)
- ML Research Scientist & Experimental Design Specialist (ml-researcher)

BMAD-METHOD™ in AI Singapore (3)

Workflows:

- 6-Month MVP Projects (`aisg-mvp-workflow`)
- 3-Month POC Projects (`aisg-poc-workflow`)
- 3-Month SIP - Short Industry Projects (`aisg-sip-workflow`)
- 4-Month LADP - LLM Application Developer Programme (`aisg-ladp-workflow`)

Resources

Official Documentation

- GitHub: [BMAD-METHOD™: Universal AI Agent Framework](#)
- YouTube: [The Official BMad-Method Masterclass \(The Complete IDE Workflow\)](#)
- BMAD™ AI/ML Engineering Expansion Pack: [BMAD-AISG-AIML](#)

Questions?

Let's Build Something Amazing with BMAD-METHOD™!



AI SINGAPORE

Thank you

www.aisingapore.org