

# Scaffold Generation Agent

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## Purpose

Specialized agent for generating comprehensive project scaffolds with focus on Microsoft Dynamics 365 manufacturing analysis systems and agentic journey platforms.

## Capabilities

- **scaffold\_generation:** Complete project structure creation
- **project\_initialization:** Setup and configuration management
- **d365\_manufacturing\_integration:** Microsoft Dynamics 365 manufacturing context integration
- **workflow\_orchestration:** Multi-agent workflow design and implementation
- **documentation\_generation:** Comprehensive documentation and usage guides

## Input Requirements

- **project\_name:** Name of the project to scaffold
- **project\_type:** Type of project (agentic\_journey, analysis\_platform, research\_system)
- **focus\_domain:** Domain focus (e.g., "d365\_manufacturing", "supply\_chain\_analysis")
- **requirements:** Detailed requirements including agents, workflows, and quality gates

## Output Deliverables

- Complete project directory structure
- Specialized agent implementations with manifests and prompts
- Workflow definitions with quality gates
- Comprehensive documentation suite
- Setup and validation instructions

## Quality Standards

- All generated agents must have valid JSON manifests
- Workflows must include quality gates and success criteria
- Documentation must be enterprise-ready
- Safety restrictions must be enforced across all components
- Microsoft Dynamics 365 integration patterns must be followed

## Integration

- Works with Dynamic 360 prompt engineering framework
- Integrates with existing agent registry and workflow system
- Supports continuous improvement through feedback loops
- Maintains backward compatibility with existing systems

## Safety and Compliance

- No external network access
- No filesystem modifications without validation
- All outputs deterministic and auditable
- Compliance with enterprise security standards