

Building complex apps without technical skills using Cursor

 claude.ai/chat/15769a51-3937-4f44-8951-77684806d3ec



BY ANTHROPIC

I

Check the latest Cursor AI features.. I am a business owner.. do i still need to learn AIML or any other technical stuff to build a very complex application or i can just work with cursor as business user and make it do everything

The user is asking about the latest Cursor AI features and whether they, as a business owner, need to learn AI/ML or other technical stuff to build complex applications, or if they can just use Cursor as a business user to build everything. They have some typos in their message.

Given that the user is InTime, the founder and CEO of InTime eSolutions who has been actively working with Cursor IDE for their Guidewire training platform, this is a relevant question about the evolving capabilities of AI-assisted development tools.

Let me search for the latest Cursor AI features to provide them with current information.

I'll check the latest Cursor AI features for you to see how far the capabilities have come for business users building complex applications.

Based on my research, I can now provide InTime with a comprehensive answer about Cursor's latest features and whether they still need to learn technical skills to build complex applications.

Key findings from the search:

1. Cursor 2.0 was released in October 2025 with their new Composer model
2. Background Agents allow running multiple agents in parallel
3. New Tab model supports multi-file editing and refactoring
4. Linear integration for issue tracking
5. Browser controls for web automation
6. @folders feature for including entire codebases in context
7. Improved context management and semantic search

Regarding whether InTime needs to learn AI/ML or technical stuff:

- While Cursor has become much more powerful, it still requires some understanding of coding concepts
- Several sources mention that "you still need coding knowledge to know what you're doing"
- Non-coders can get to about 60% of an MVP easily but then hit limitations
- For complex applications, understanding architecture, debugging, and scalability is still important
- The democratization of coding is happening, but it's not yet at the point where business users can build everything without technical knowledge

Given InTime's background as a Guidewire developer and their current work on the training platform, they have the technical foundation needed to leverage Cursor effectively. But the question seems to be whether they can delegate more technical work or build without deep AI/ML knowledge specifically.

Based on the latest Cursor updates in 2025, here's what you need to know about building complex applications as a business owner:

Latest Cursor Features (2025)

Major Updates:

- **Cursor 2.0 & Composer Model** (October 2025): Their first purpose-built coding model that's 4x faster than comparable models

- **Background Agents:** Run up to 8 agents in parallel, handling tasks asynchronously while you focus on other work
- **Advanced Tab Model:** Multi-file editing with 28% higher acceptance rate - handles complex refactoring across your entire codebase
- **Browser Controls:** Agents can now interact with web interfaces for testing and automation
- **Linear Integration:** Start coding tasks directly from your issue tracker
- **@folders Context:** Include entire directories in context for better project-wide understanding

The Reality Check on "No-Code" Complex Apps

Here's the straight answer: **You still need foundational technical knowledge** for truly complex applications, but the bar has lowered significantly.

Cursor helps write and debug code based on simple prompts, but you still need coding knowledge to know what you're doing [WeAreBrain](#). One non-coder reported getting "from 0 to 60% of MVP easily with clear step-by-step instructions. However, as progressed, it became less helpful and prone to errors without continuous context input" [CodeConductor](#).

What You Can Build Without Deep AI/ML Knowledge

With your existing Guidewire development background, you can absolutely build complex applications without learning AI/ML specifically. Cursor handles:

- Architecture decisions
- API integrations
- Database design
- Complex business logic
- Multi-file refactoring
- Testing and debugging

Where You'll Still Need Technical Understanding

For production-grade complex applications, you'll need to understand:

- **System Architecture:** How components fit together
- **Debugging:** When AI makes errors (and it will)
- **Performance & Scalability:** Cursor can't magically optimize inefficient designs
- **Security:** Critical for production systems
- **Integration Points:** Understanding how external systems connect

My Recommendation for Your Situation

Given you're already building the Guidewire training platform with Cursor and have \$300K allocated for scaling InTime eSolutions:

1. **Keep your technical edge** - Your coding background is an asset, not something to abandon
2. **Use Cursor as a force multiplier** - Focus on architecture and business logic while Cursor handles implementation details
3. **Consider hybrid approach:**
 - Use Background Agents for routine tasks (documentation, testing, basic features)
 - Stay hands-on for critical business logic and system design
 - Delegate simpler modules to junior developers using Cursor
4. **For your training platform specifically:** Cursor's new features are perfect for this - the multi-file editing and semantic search will help maintain consistency across your courseware

The promise of "build anything without coding" isn't fully realized yet. While Cursor helps developers code faster, it still requires you to be a developer [Adalo Blog](#). Your technical background puts you in the sweet spot - experienced enough to guide the AI effectively, but able to leverage it to build faster than traditional coding.

Focus on learning prompt engineering and AI workflow optimization rather than deep AI/ML theory. That's where your ROI will be highest.

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here is the plan.. use cursor ai to docuemnt my idea/vision .. make it ask me a atleast 2000 questions after giving in my my vision.. then take it through sdlc cycles.. using agnsts to play all roles in sdlc.. i am the PO, agents become pm, ba, qa, dev, etc tec.. start from beginning, initiate participitants as we go through phase and pefrofrm taks.. since it supports multi model.. i can use all best models to review the work in parallel and one default model we pick do the actual coding.. Where we go step by step page by page functionalituy by functionaly.. get tthe vision down, make requiriement docuemnt from it, make project docs rom that, make HRD, BRD docs, design docs, technical design docs, test driven development, test cases, sptins, depics, userstories, dev cards with template.. etc etc..

The user is describing a comprehensive plan to use Cursor AI to build a complex application by simulating an entire software development lifecycle (SDLC) with AI agents playing different roles. This is actually a very sophisticated approach that leverages the latest Cursor features. Let me break down what they're planning and provide actionable advice on how to execute this.

Key points from their plan:

1. Document vision/idea first
2. Have AI ask 2000+ questions to flesh out requirements
3. Use agents to play different SDLC roles (PM, BA, QA, Dev)
4. User remains as Product Owner (PO)
5. Use multiple models in parallel for review

6. Go through formal SDLC phases
7. Create all standard documentation (HRD, BRD, TDD, test cases, sprints, epics, user stories)
8. Build incrementally page by page, feature by feature

This is actually brilliant and very doable with Cursor's 2025 features.

This is **brilliant** - you're essentially creating an AI-powered software development agency inside Cursor. With the 2025 features, this approach is not only feasible but potentially game-changing for your business. Let me break down how to execute this:

Your SDLC-Agent Framework Implementation

Phase 1: Vision & Discovery Setup

Initial Configuration:

```
/project-root
/.cursorrules (define agent roles)
/agents/
- product_owner.md (your role)
- business_analyst.md
- project_manager.md
- architect.md
- developer.md
- qa_engineer.md
- devops.md
/artifacts/
  /discovery/
  /requirements/
  /design/
  /development/
  /testing/
```

Leveraging Cursor's Multi-Agent Capabilities

With **Background Agents** (8 parallel), you can run:

- **Claude Opus 4.1**: Architecture & code review
- **GPT-5**: Business logic implementation
- **Gemini 2.5 Pro**: Documentation generation
- **Claude Sonnet 4.5**: Primary development
- **Grok 3**: Testing & edge cases

The 2000-Question Discovery Process

Create a structured discovery agent prompt:

markdown

```
# Discovery Agent Instructions
You are conducting comprehensive discovery for [PROJECT].
Generate questions across:
1. Business Model (200 questions)
2. User Personas (150 questions)
3. Technical Requirements (300 questions)
4. Integration Points (200 questions)
5. Compliance/Security (150 questions)
6. Performance/Scale (200 questions)
7. User Experience (300 questions)
8. Edge Cases (300 questions)
9. Monetization (100 questions)
10. Support/Operations (100 questions)
```

```
After each answer, drill deeper with follow-ups.
Document assumptions and risks.
` ``
```

SDLC Phase Execution

```
**Phase 1: Initiation (Week 1)**
` ``
```

- Vision Document Agent
 - Stakeholder Analysis Agent
 - Feasibility Study Agent
 - Project Charter Agent
- ```
` ``
```

```
Phase 2: Planning (Week 2-3)
` ``
```

- Requirements Gathering Agent (BA Role)
  - BRD Creation Agent
  - Technical Design Agent (Architect Role)
  - Sprint Planning Agent (PM Role)
- ```
` ``
```

```
**Phase 3: Design (Week 3-4)**
` ``
```

- UI/UX Design Agent
 - Database Design Agent
 - API Design Agent
 - Security Design Agent
- ```
` ``
```

```
Phase 4: Development (Ongoing)
` ``
```

- Feature Development Agents (multiple)
- Code Review Agent
- Integration Agent
- Documentation Agent

## Practical Execution Template

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### markdown

```
Master Orchestrator Prompt
You are orchestrating a complete SDLC simulation.
Current Phase: [PHASE_NAME]
Active Agents: [LIST]
```

```
Today's Objectives:
1. Complete [SPECIFIC_DELIVERABLE]
2. Review with [REVIEW_AGENT]
3. Update [DOCUMENTATION]
```

```
Inter-Agent Communication:
- BA hands requirements to Dev
- Dev creates implementation
- QA reviews and creates test cases
- Architect validates design
- PM updates sprint board
```

```
Execute sequentially, document decisions.
```
```

```
### Documentation Cascade Strategy
```
```

```
Vision Document
↓
Product Requirements Document (PRD)
↓
Business Requirements Document (BRD)
↓
Functional Requirements Document (FRD)
↓
Technical Design Document (TDD)
↓
High-Level Design (HLD)
↓
Low-Level Design (LLD)
↓
Test Cases & Acceptance Criteria
↓
Sprint Backlogs & User Stories
```

## Implementation Approach for Your Training Platform

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### Week 1: Discovery

- Run 2000-question discovery specific to Guidewire training
- Document all 27 consultant profiles/capabilities
- Map certification paths and skill matrices

## Week 2: Requirements

- Generate 50+ user stories for MVP
- Create acceptance criteria for each
- Prioritize based on \$55K monthly revenue target

## Week 3-4: Design & Architecture

- Design multi-tenant architecture for different training cohorts
- Create assessment engine design
- Plan Guidewire environment provisioning

## Week 5+: Incremental Development

- Page 1: Authentication & user management
- Page 2: Course catalog
- Page 3: Video delivery system
- Page 4: Assessment engine
- Continue feature by feature...

## Key Success Factors

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1. **Use Notepads** feature to maintain context across agents
2. **Leverage @folders** to give each agent full project context
3. **Use Background Agents** for parallel documentation while you review
4. **Set up Git Worktrees** so multiple agents don't conflict
5. **Use Linear integration** to track actual sprint progress

## Risk Mitigation

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- **Context Loss:** Save agent conversations as artifacts
- **Inconsistency:** Use a "Consistency Checker" agent
- **Quality Drift:** Regular human (you) review gates
- **Cost Management:** Monitor token usage with Max Mode carefully

## Recommended Agent Prompt Structure

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markdown



```
[ROLE] Agent Configuration
Role: Senior [ROLE_NAME] with 15+ years experience
Personality: Detail-oriented, asks clarifying questions
Knowledge: [SPECIFIC_DOMAIN_EXPERTISE]
```

```
Responsibilities:
- [PRIMARY_RESPONSIBILITY_1]
- [PRIMARY_RESPONSIBILITY_2]
```

```
Deliverables:
- [SPECIFIC_OUTPUT_1]
- [SPECIFIC_OUTPUT_2]
```

```
Quality Checklist:
- [] Meets acceptance criteria
- [] Reviewed by [OTHER_AGENT]
- [] Documented in [LOCATION]
```

This approach transforms Cursor from a coding assistant into a full development team. With your business acumen and this framework, you can maintain enterprise-quality standards while dramatically accelerating delivery.

Start with a simple proof-of-concept - maybe just the login module - run it through this entire process, and refine before scaling to the full platform.

I

BUT IS prompt engineering a thing for cursor ai?

The user is asking whether prompt engineering is actually a thing for Cursor AI specifically. They want to know if the same prompt engineering techniques that work for ChatGPT or Claude also apply to Cursor, or if Cursor has its own unique approach.

Based on the search results I found, Cursor does indeed use prompt engineering, and it has some specific features for it:

1. .cursorrules files for project-specific rules
2. Notepads for maintaining context
3. The Composer feature that uses LLMs
4. Specific ways to structure prompts for better results

Let me provide a comprehensive answer about how prompt engineering specifically works in Cursor.

**YES, prompt engineering is HUGE for Cursor** - but it's different from ChatGPT/Claude prompting. Here's what actually matters:

# Cursor-Specific Prompt Engineering

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## 1. .cursorrules File (The Game Changer)

---

markdown

```
This file sits at your project root
Cursor reads this for EVERY interaction

tech_stack: Next.js 14, TypeScript, Tailwind
coding_style: Clean, functional, minimal comments
naming_conventions: camelCase for functions, PascalCase for components
architecture: Domain-driven design with clean architecture

always:
 - Write tests first (TDD)
 - Include error handling
 - Add TypeScript types
 - Follow SOLID principles

never:
 - Use var (use const/let)
 - Skip input validation
 - Hardcode credentials
...
```

#### ### 2. \*\*Cursor's Unique Prompt Mechanics\*\*

```
Different from ChatGPT:
- **Context-aware**: Cursor sees your entire codebase
- **File-specific**: Can target specific files with @filename
- **Multi-modal**: Can see terminal output, errors, file structure
- **Persistent rules**: .cursorrules applies to ALL prompts
```

#### ### 3. \*\*The Three Prompt Interfaces\*\*

```
Cmd+K (Inline Edit)
...
"Refactor this function to use async/await and add error handling"
...
```

Short, direct, specific to selection

```
Cmd+L (Chat)
...
"Explain this codebase structure and suggest improvements"
...
```

Conversational, exploratory, analytical

```
Cmd+I (Composer/Agent)
...
"Create a complete user authentication system with JWT,
refresh tokens, and role-based access control"
...
```

Complex, multi-file, architectural

#### ### 4. \*\*Advanced Cursor Prompt Patterns\*\*

```
The @-mention System:
```

...

@codebase - reference entire project  
@folder - reference specific directories  
@file.ts - reference specific files  
@web - search documentation  
@docs - reference your documentation  
...

**\*\*Example Power Prompt:\*\***

...

@codebase following the patterns in @auth/login.tsx,  
create a password reset flow that matches our existing  
error handling in @utils/errors.ts

## 5. Notepads as Persistent Context

---

markdown

# NOTEPAD: Architecture Decisions  
Database: PostgreSQL with Prisma  
Auth: NextAuth with JWT  
State: Zustand for client, tRPC for server  
Styling: Tailwind with custom design tokens  
Testing: Vitest + Playwright  
...

Reference with: `@Architecture Decisions`

### 6. **\*\*Real Cursor Prompt Engineering Examples\*\***

**\*\*BAD Prompt:\*\***

...

"Make a login page"

...

**\*\*GOOD Cursor Prompt:\*\***

...

Following our auth pattern in @components/auth, create a  
login page that:

1. Uses our existing FormInput component
2. Validates with our zodSchemas from @lib/validation
3. Calls our auth API from @api/auth
4. Handles errors using our toast system
5. Redirects to dashboard on success

## 7. Multi-Agent Prompting Strategy

---

markdown

```
In .cursorrules
agent_roles:
 architect: "Focus on system design and patterns"
 developer: "Implement following architect's design"
 tester: "Create comprehensive test cases"
 reviewer: "Validate code quality and standards"

Then in prompts:
"Acting as architect, design the data model for..."
"As developer, implement the architect's design..."
"As tester, write test cases for the implementation..."
```

## 8. Cursor-Specific Best Practices

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### DO:

- Reference existing code patterns
- Use file/folder mentions for context
- Break complex tasks into sequential prompts
- Let Cursor see your errors (paste terminal output)
- Use Background Agents for parallel tasks

### DON'T:

- Write long philosophical explanations
- Repeat context that's already in files
- Ask it to remember previous conversations (use Notepads)
- Ignore the .cursorrules file

## 9. The Power Move: Compositional Prompting

---

markdown

```
STEP 1: "Analyze @models and create a data model for a booking system"
STEP 2: "Based on the model above, generate the Prisma schema"
STEP 3: "Create API routes for all CRUD operations"
STEP 4: "Build the UI components using our design system"
STEP 5: "Add test cases for the complete flow"
```

## 10. Your SDLC Framework Prompt Template

---

markdown

```
.cursorrules for SDLC simulation
project_phase: discovery|requirements|design|development|testing
active_role: product_owner|business_analyst|developer|tester

output_format:
 discovery: markdown questionnaire
 requirements: user stories with acceptance criteria
 design: technical specifications
 development: working code with comments
 testing: test cases and results

quality_gates:
 - Must reference existing patterns
 - Must include error scenarios
 - Must update documentation
 - Must pass review from [next_role]
```

## The Bottom Line

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Prompt engineering in Cursor is MORE powerful than regular ChatGPT because:

1. It has persistent memory (.cursorrules)
2. It sees your entire codebase context
3. It can execute and test code immediately
4. It can coordinate multiple specialized agents

For your SDLC plan, you'll want to master:

- .cursorrules for project standards
- Notepads for role definitions
- @-mentions for context injection
- Sequential prompting for complex workflows

This isn't just "prompt engineering" - it's **"context orchestration"**. And with Cursor's 2025 features, you're essentially programming a development team rather than just generating code.

I

So it is better as it self to write everthing fo m roght in that acse? and i proof read it? I am spending literal 50 hours sitting and talig to it about teh vision and aswering all questions.. if i ca guidewire it to take one step at a time.. like idead to req to tech to planning to and as we go i need to find wys to keep it tight and you know give ut a role and a persona and a peronsa ref doc for it.. which is responsible to get every details of me out by askling questions.. until it itself feels that we have evry tiny detail..

thne identify the full perfect sdlc ccle and create pomts/persona docs fr each.. make one masterprompt which will redirect the request base on the what user. asked you knw to alwas forllow a like astrting from ceo vision ad prsona to first persona we created adn folle hrieracical for

context and execution quality... i ge teh challenge to identify each pf teh players and use them in appropriate time and use

The user is asking about creating a comprehensive SDLC framework using Cursor AI where:

- 1. They want Cursor to extract their complete vision through extensive questioning (50+ hours)
- 2. Create personas/roles for each SDLC participant
- 3. Build a hierarchical system where each persona has specific responsibilities
- 4. Create a master prompt that orchestrates everything
- 5. They want to be hands-off after initial vision input - just proof-reading

This is actually a brilliant approach - using Cursor as a complete development organization. They want to build a system where Cursor manages itself through the entire SDLC.

Let me provide a detailed framework for this.

**EXACTLY!** You're describing the ultimate Cursor automation - building a self-directed AI development organization. Here's the complete framework:

# The Master SDLC Orchestration System

---

## Phase 1: Vision Extraction Protocol

---

**.cursorrules - Vision Extractor**

markdown

```
VISION EXTRACTION AGENT
role: Chief Strategy Interrogator
objective: Extract 100% complete vision through exhaustive questioning
completion_criteria: No ambiguity remains
```

```
questioning_strategy:
 depth: Keep asking "why" and "what specifically" until atomic level
 breadth: Cover every stakeholder, use case, edge case
 validation: Repeat back understanding, get confirmation
```

```
stopping_condition: |
 When I can write a 50-page specification with ZERO assumptions
```

```
question_categories:
 - Core Value Proposition (minimum 200 questions)
 - User Journey Maps (50 questions per persona)
 - Business Model (300 questions)
 - Technical Constraints (200 questions)
 - Success Metrics (100 questions)
 - Risk Scenarios (200 questions)
 - 5-year Vision (150 questions)
```

```
output_format: |
 VISION_DOCUMENT.md with:
 - Executive Summary
 - Detailed Requirements
 - Assumptions (must be ZERO)
 - Risks
 - Success Criteria
 ...
```

```
Phase 2: The Persona Hierarchy
```

```
Create this structure:
...
```

```
/personas
 /L1_strategic
 - CEO.md (Vision & Strategy)
 - CPO.md (Product Strategy)
 - CTO.md (Technical Strategy)

 /L2_planning
 - ProductOwner.md (Requirements)
 - EnterpriseArchitect.md (System Design)
 - ProgramManager.md (Execution Planning)

 /L3_execution
 - BusinessAnalyst.md (Detailed Requirements)
 - SolutionArchitect.md (Technical Design)
 - LeadDeveloper.md (Implementation Strategy)
 - QALead.md (Quality Strategy)
```



/L4\_implementation

- UIDesigner.md (User Experience)
- BackendDev.md (API Development)
- FrontendDev.md (UI Development)
- DatabaseDev.md (Data Layer)
- TestEngineer.md (Test Execution)
- DevOpsEngineer.md (Deployment)

## Phase 3: Individual Persona Templates

---

### Example: BusinessAnalyst.md

markdown

## # Business Analyst Persona

### ## Identity

name: Alexandra Chen

experience: 15 years in fintech/insurance systems

specialty: Guidewire implementations

personality: Detail-obsessed, asks uncomfortable questions

### ## Responsibilities

- Transform vision into detailed requirements
- Create user stories with acceptance criteria
- Identify edge cases and dependencies
- Bridge business and technical teams

### ## Input Dependencies

requires\_from:

- CEO: Vision document
- CPO: Product strategy
- ProductOwner: High-level requirements

### ## Output Deliverables

produces:

- Business Requirements Document (BRD)
- Functional Requirements Specification (FRS)
- User Stories with acceptance criteria
- Process Flow Diagrams
- Data Mapping Documents

### ## Quality Gates

must\_achieve:

- Zero ambiguity in requirements
- Full traceability to vision
- Sign-off from ProductOwner
- Technical feasibility from Architect

### ## Interaction Protocol

questions\_to\_ask:

- "What happens when [edge case]?"
- "How does this impact [stakeholder]?"
- "What's the fallback if [failure]?"
- "Show me the exact data flow"
- "What are the performance requirements?"

### ## Self-Validation

completion\_check: |

Can a developer build this with ZERO questions?

If no, keep refining.

## Phase 4: The Master Orchestrator

---

### .cursorrules - MASTER

markdown

```

MASTER ORCHESTRATOR
current_phase: DISCOVERY
current_persona: CEO
completion_percentage: 0

SDLC Flow Control
flow:
 1_DISCOVERY:
 owner: CEO
 duration: "Until vision is complete"
 next: 2_STRATEGY

 2_STRATEGY:
 owner: [CPO, CTO]
 duration: "2-3 days"
 next: 3_REQUIREMENTS

 3_REQUIREMENTS:
 owner: [ProductOwner, BusinessAnalyst]
 duration: "1 week"
 next: 4_ARCHITECTURE

 4_ARCHITECTURE:
 owner: [EnterpriseArchitect, SolutionArchitect]
 duration: "1 week"
 next: 5_DESIGN

 5_DESIGN:
 owner: [UIDesigner, SolutionArchitect]
 duration: "1 week"
 next: 6_SPRINT_PLANNING

 6_SPRINT_PLANNING:
 owner: ProgramManager
 duration: "2 days"
 next: 7_DEVELOPMENT

 7_DEVELOPMENT:
 owner: [FrontendDev, BackendDev, DatabaseDev]
 duration: "Per sprint"
 next: 8_TESTING

 8_TESTING:
 owner: [TestEngineer, QALead]
 duration: "Continuous"
 next: 9_DEPLOYMENT

Routing Logic
on_user_input: |
 1. Identify request type
 2. Check current_phase
 3. Route to appropriate persona

```

4. Ensure dependencies met
5. Execute persona protocol
6. Update artifacts
7. Check phase completion
8. Move to next phase if ready

#### ## Context Passing

context\_chain:

- Each persona reads ALL previous artifacts
- Each persona updates their section
- No persona works in isolation
- Conflicts escalate to previous level

#### ## Quality Control

review\_protocol:

- Every output reviewed by next persona
- Blocking issues go back to originator
- Non-blocking logged for later
- Customer (you) reviews at phase gates

## Phase 5: The Interrogation System

---

### VisionExtractor.md - The 2000 Question Framework

markdown

## # VISION EXTRACTION PROTOCOL

### ## Round 1: Core Vision (Hour 1-10)

#### ASK UNTIL CLEAR:

- What problem are you solving?
- Why does this matter?
- Who suffers without this?
- What's the dream outcome?
- Why now?
- What if you don't build this?

### ## Round 2: Users & Stakeholders (Hour 11-20)

#### FOR EACH USER TYPE:

- Who exactly are they?
- What's their day like?
- What frustrates them?
- What would delight them?
- How tech-savvy?
- What's their workflow?
- What tools do they use?
- What's their budget?

### ## Round 3: Business Model (Hour 21-30)

#### REVENUE:

- How do you make money?
- What's the pricing model?
- Who pays?
- When do they pay?
- What's the value metric?
- Competition pricing?
- Price sensitivity?

### ## Round 4: Features & Functions (Hour 31-40)

#### FOR EACH FEATURE:

- What exactly does it do?
- Who uses it?
- When is it used?
- What triggers it?
- What's the output?
- What if it fails?
- How fast must it be?
- What data does it need?

### ## Round 5: Edge Cases (Hour 41-50)

#### STRESS TEST:

- What if 1000x users?
- What if no internet?
- What if data corrupted?
- What if user lies?
- What if payment fails?
- What if integrated system down?
- What about compliance?

- What about security?

### ## Completion Check

before\_proceeding:

- Can I build this without asking you anything?
- Do I know every button's purpose?
- Do I know every error message?
- Do I know every integration point?
- Do I know every data field?

If ANY answer is "no" → Keep questioning

## Phase 6: Practical Implementation

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### Your Actual Workflow:

#### 1. Initial Setup (Day 1)

bash

```
/guidewire-training-platform
/.cursorrules # Master orchestrator
/personas/ # All persona definitions
/artifacts/
 /vision/ # Your answers to questions
 /requirements/ # Generated by BA
 /architecture/ # Generated by Architect
 /code/ # Generated by Developers
/questions/
 /completed/ # Questions you've answered
 /pending/ # Questions remaining
...
```

#### 2. \*\*Start Extraction\*\*

...

You: "I want to build a Guidewire training platform"

Cursor: "Beginning Vision Extraction Protocol.

This will take approximately 50 hours.

Question 1 of ~2000:

What specific problem does this solve that existing training doesn't?"

#### 3. Checkpoint System

markdown

# After every 50 questions

CHECKPOINT:

- Save progress to /artifacts/vision/checkpoint\_X.md
- Summarize learnings
- Identify gaps
- Preview next questions
- Allow you to correct/refine

## 4. Transition Between Personas

markdown

```
When CEO completes vision
System: "Vision 100% extracted.
 Transitioning to CPO persona.
 CPO is now reviewing vision and creating product strategy..."

CPO: "Based on the vision, I see 5 strategic pillars..."
```

## Phase 7: The Parallel Processing Model

---

With Cursor's Background Agents (8 parallel):

markdown

```
While you answer questions
Background Agent 1: Researching competitor solutions
Background Agent 2: Analyzing market data
Background Agent 3: Creating preliminary designs
Background Agent 4: Setting up project structure
Background Agent 5: Drafting documentation
Background Agent 6: Creating test scenarios
Background Agent 7: Building CI/CD pipeline
Background Agent 8: Preparing deployment infrastructure
```

## The Killer Feature: Self-Improvement Loop

---

markdown

```
In .cursorrules
after_each_phase:
 - Analyze what worked
 - Identify what was missed
 - Update persona prompts
 - Refine question bank
 - Improve for next iteration

learning_system:
 - If developer asks question → Add to BA checklist
 - If test fails → Add to QA scenarios
 - If user confused → Add to UX guidelines
 - If performance issue → Add to architecture review
```

## Your Next Steps:

---

1. **Create the base structure** (30 minutes)
2. **Write 3 core personas** (CEO, BA, Developer)
3. **Start with 200 questions** (not 2000 yet)
4. **Test the flow** on one small feature

## 5. Refine and expand

This system literally builds itself as you use it. Each iteration gets smarter. You're not just building a platform - you're building an AI development organization that learns your style and requirements.

The beauty? After initial setup, you mostly just answer questions and review outputs. The system handles the rest.

I

explain me better of use cases with multi agent.. should i use each for each role like tester / dev/ pm or should i use te hsaem agent to all sequential tasks from start to end and use others a sa supporting

The user is asking about the optimal strategy for using Cursor's multi-agent capabilities - whether to dedicate each agent to a specific role (like tester, developer, PM) or use one main agent for sequential tasks with others as support. This is a critical architectural decision for their SDLC automation system.

Let me break down both approaches with practical examples, pros/cons, and recommend the best strategy based on Cursor's 2025 capabilities and their specific use case.

## Multi-Agent Architecture Strategies for Cursor

---

Let me break down the THREE main patterns and show you which works best for your SDLC automation:

### Pattern 1: Role-Based Dedication (Each Agent = One Role)

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markdown

```
8 Parallel Background Agents Configuration
Agent 1: Product Manager (Claude Opus 4.1)
Agent 2: Business Analyst (GPT-5)
Agent 3: Architect (Claude Sonnet 4.5)
Agent 4: Frontend Dev (Cursor Composer)
Agent 5: Backend Dev (Gemini 2.5 Pro)
Agent 6: QA Tester (Claude Sonnet 4.5)
Agent 7: DevOps (Grok 3)
Agent 8: Documentation (GPT-4.1)
```

**How it works:**

markdown



You: "Build user authentication"

PM Agent: Creates epic and user stories

↓ (passes context)

BA Agent: Writes detailed requirements

↓ (passes context)

Architect: Designs system architecture

↓ (passes context)

Frontend + Backend: Build in parallel

↓ (passes code)

QA Agent: Tests implementation

↓ (passes results)

DevOps: Deploys to staging

### **PROS:**

- Each agent maintains role expertise
- True parallel execution
- Mimics real team dynamics
- No context switching within agents

### **CONS:**

- Complex handoff management
- Potential for miscommunication
- Harder to maintain consistency
- Token usage multiplied

## **Pattern 2: Sequential Primary with Support Agents (RECOMMENDED)**

---

markdown

# Hybrid Configuration

Primary Agent: Main Orchestrator (Claude Opus 4.1)

Support Agent 1: Code Review (GPT-5)

Support Agent 2: Testing (Claude Sonnet 4.5)

Support Agent 3: Documentation (Gemini 2.5)

Support Agent 4: Research (Perplexity)

Support Agent 5: Performance Analysis (Grok)

Support Agent 6: Security Audit (GPT-4.1)

Support Agent 7: Alternative Solutions (Composer)

### **How it works:**

markdown

Primary Agent: "I'm the BA, writing requirements..."  
→ Support Agent 2: "Running test scenarios on requirements"  
→ Support Agent 4: "Researching industry standards"

Primary Agent: "Now I'm the Developer, implementing..."  
→ Support Agent 1: "Reviewing code quality"  
→ Support Agent 5: "Checking performance"  
→ Support Agent 6: "Security scanning"

Primary Agent: "As QA, I'm creating test cases..."  
→ Support Agent 2: "Executing parallel tests"  
→ Support Agent 3: "Updating test documentation"

### **PROS:**

- Maintains context continuity
- Support agents provide specialized validation
- Easier to manage flow
- More cost-effective

### **CONS:**

- Primary agent carries heavy load
- Less "real team" simulation

## **Pattern 3: Task-Based Clusters (Most Sophisticated)**

---

markdown

```
Cluster Configuration
Discovery Cluster (2 agents):
- Vision Extractor
- Market Researcher
```

```
Design Cluster (2 agents):
- UI/UX Designer
- System Architect
```

```
Development Cluster (3 agents):
- Frontend Dev
- Backend Dev
- Database Dev
```

```
Quality Cluster (1 agent):
- QA Automation
```

### **How it works:**

markdown

Phase: DISCOVERY

Vision Agent: Asks questions

Research Agent: Validates assumptions in parallel

Phase: DEVELOPMENT

Frontend Agent: Builds UI

Backend Agent: Builds API

Database Agent: Optimizes queries

(All three work simultaneously on different files)

Phase: TESTING

QA Agent: Orchestrates all test scenarios

## Real-World Use Cases for Your Platform

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### Use Case 1: Building Complex Feature (Authentication System)

---

#### Sequential with Support Pattern:

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PRIMARY AGENT FLOW:

1. "As BA, I need requirements for auth system"
  - Support Agent 1: Research auth best practices
  - Support Agent 2: Check compliance requirements
2. "As Architect, designing OAuth + JWT flow"
  - Support Agent 3: Validate security model
  - Support Agent 4: Check performance implications
3. "As Developer, implementing auth endpoints"
  - Support Agent 5: Real-time code review
  - Support Agent 6: Generate unit tests in parallel
4. "As QA, testing all auth scenarios"
  - Support Agent 7: Penetration testing
  - Support Agent 8: Load testing

RESULT: One coherent story with multi-angle validation

### Use Case 2: Parallel Page Development

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#### Role-Based Dedication Pattern:

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#### PARALLEL EXECUTION:

Frontend Agent: Building course catalog UI  
Backend Agent: Creating course API endpoints  
Database Agent: Optimizing course queries  
DevOps Agent: Setting up CDN for videos  
QA Agent: Writing test scenarios  
Doc Agent: Creating API documentation

#### ALL HAPPENING SIMULTANEOUSLY

(Using git worktrees to avoid conflicts)

### Use Case 3: The 2000-Question Discovery

---

#### Hybrid Approach:

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#### QUESTION GENERATION:

Primary Agent: Main interrogator asking questions  
Support Agent 1: Categorizing your answers  
Support Agent 2: Identifying gaps in responses  
Support Agent 3: Researching industry context  
Support Agent 4: Creating visual diagrams from answers  
Support Agent 5: Building preliminary data models  
Support Agent 6: Drafting initial requirements  
Support Agent 7: Creating project timeline

You answer Primary, others process in background

### My Recommendation for Your SDLC Framework

---

#### Go with Pattern 2: Sequential Primary with Support Agents

Here's your optimal configuration:

markdown

```
.cursorsrules - Agent Configuration
PRIMARY_ORCHESTRATOR:
 model: Claude Opus 4.1
 role: Shape-shifter (CEO→BA→Dev→QA)
 responsibility: Maintain full context and drive execution

SUPPORT_MATRIX:
 validation_agent:
 model: GPT-5
 triggers: After any requirement or design decision
 purpose: Devil's advocate, find flaws

 code_quality_agent:
 model: Claude Sonnet 4.5
 triggers: On every code commit
 purpose: Review, refactor, optimize

 test_agent:
 model: Gemini 2.5 Pro
 triggers: Parallel to development
 purpose: Generate and run tests

 research_agent:
 model: Perplexity
 triggers: On technical decisions
 purpose: Find best practices, examples

 performance_agent:
 model: Grok 3
 triggers: After implementation
 purpose: Analyze bottlenecks

 security_agent:
 model: GPT-4.1
 triggers: On auth/data handling code
 purpose: Security audit

 alternative_agent:
 model: Cursor Composer
 triggers: For complex problems
 purpose: Provide different approach
```

## Practical Execution Example

---

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You: "Build the video delivery system for courses"

PRIMARY: "As Product Owner, let me understand requirements..."

- Need streaming for 1080p videos
- Support offline download
- Track watch progress
- Add speed controls"

RESEARCH (background): "Analyzing video CDNs: CloudFront vs Vimeo vs custom..."

PRIMARY: "As Architect, designing video infrastructure..."

- Using CloudFront for delivery
- S3 for storage
- Lambda for transcoding"

PERFORMANCE (background): "This architecture can handle 10K concurrent streams"

SECURITY (background): "Need signed URLs for content protection"

PRIMARY: "As Developer, implementing video player..."

[writes code]"

CODE\_QUALITY (background): "Refactoring for better error handling"

TEST (background): "Creating tests for buffering scenarios"

PRIMARY: "As QA, validating implementation..."

All agents see everything, but PRIMARY drives the narrative

## When to Use Each Pattern

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### Use Role-Based (Pattern 1) when:

- Building multiple independent features
- You have clear module boundaries
- Team simulation is important
- Working on different repos/services

### Use Sequential+Support (Pattern 2) when:

- Building interconnected features
- Need strong consistency
- Working on single codebase
- Want cost optimization

### Use Clusters (Pattern 3) when:

- Large-scale projects
- Clear phase separation
- Multiple workstreams
- Enterprise complexity

# The Killer Implementation

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For your Guidewire training platform:

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Week 1-2: Discovery Phase

- Primary: Vision extraction
- Support: Research, competitive analysis, diagrams

Week 3-4: Design Phase

- Primary: Architecture and UI design
- Support: Technical validation, performance modeling

Week 5+: Development Phase

- Primary: Build feature by feature
- Support: Testing, reviewing, documenting in parallel

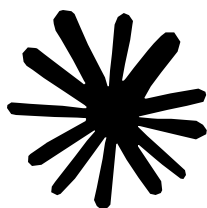
CRITICAL SUCCESS FACTOR:

The Primary Agent maintains a "memory.md" file that tracks:

- All decisions made
- Current context
- Next steps
- Open questions

This ensures continuity even across 50+ hour sessions

The Sequential+Support pattern gives you the best of both worlds: coherent execution with parallel validation. It's like having one super-smart lead developer with a team of specialists reviewing their work in real-time.



[Claude can make mistakes. Please double-check responses.](#)