Writing Reliable Tests for React using Al

A comprehensive guide to building robust test suites with Al assistance



Introduction

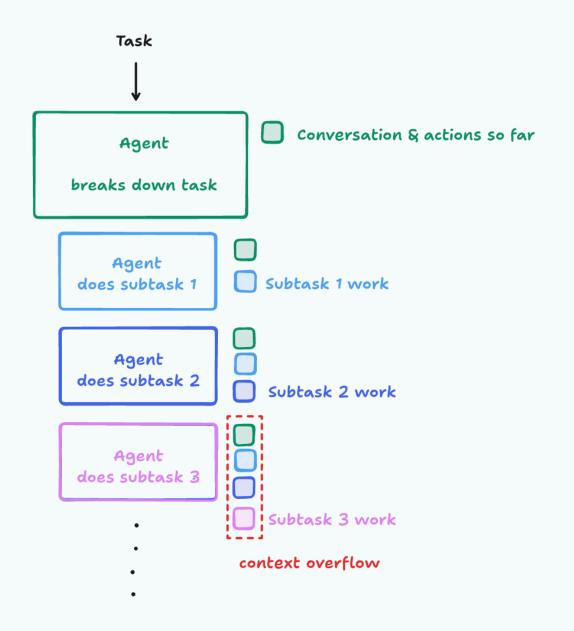
https://www.zainfathoni.com/
about

Al Usage Principles

- Use Al to enhance your productivity
- Be the **pilot**, not the passenger
- Iron Man suit, not robot
- https://x.com/zainfathoni/st atus/19382564456630232
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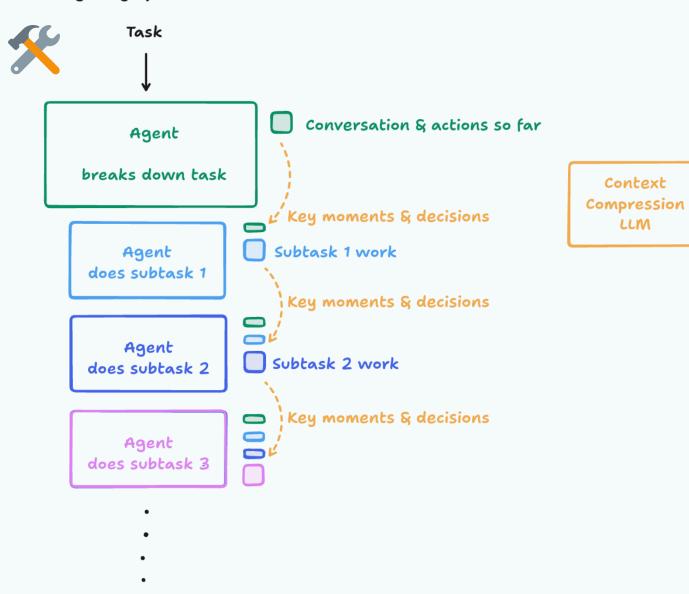






Reliable on longer tasks (but hard to get right)

Context X



LLM

Agenda

- 1. Prepare React Testing Infrastructure
- 2. Write reliable tests for React components
- 3. Use AI to write the tests
- 4. Prompt AI to produce consistent tests

1. Prepare React Testing Infrastructure

- Keact Testing Library
- Witest Browser Mode
- Playwright MCP integration

2. Write reliable tests for React components

- Test user interactions
- X Avoid testing implementation details
- https://confident-react-testing.netlify.app/

3. Use AI to write the tests

- Leveraging Al for test generation
- Understanding Al capabilities
- Integrating Al into testing workflow
- Quality assurance with AI-generated tests

4. Prompt Al to produce consistent tests

- Establishing testing standards
- Document repeated patterns
- Generate test plans based on examples
- 1 Focuse on one test suite at a time

Key Takeaways

- **Be the pilot, not the passenger** Al enhances, doesn't replace
- Wanage context carefully Avoid overflow, maintain relevance
- Modern stack: React Testing Library + Vitest + Playwright MCP
- **© Test behaviors, not implementation** User-focused testing
- Document patterns Guide Al with consistent standards

Thank You

Questions & Discussion