

TL;DR Quick Start

Step	Description	Prompt / Script
1	Install Cursor (AI code editor)	Download and install the Cursor app for macOS, Windows, or Linux from the official site.
2	Open your React project in Cursor	Launch Cursor and open your existing React project folder.
3	Generate a new component using a prompt	You are my React assistant. Create a <Button> component using TypeScript with props onClick and label. Use CSS Modules. Generate the TSX file and a matching Button.module.css.
4	Detect potential errors and improvements	Scan this React project for common issues like missing keys, incorrect dependency arrays, unused props, and basic performance problems. List issues with file paths and suggested fixes.

How to Set Up the Cursor for a React Project

Step 1 – Installation

Download and install the Cursor IDE for your operating system. Optionally, install the Cursor CLI/Agent if you want to trigger prompts from the terminal.

Verify CLI installation:

Step	Prompt / Script
Verify CLI	cursor --version

Mini-checklist:

- Install the Cursor desktop app
- (Optional) Install Cursor CLI / Agent
- Verify CLI availability

Step 2 – Open Your React Project

Open your React project folder in Cursor. The editor reads your project structure for context-aware suggestions.

Mini-checklist: - Launch Cursor
- Open the React project folder
- Confirm files load correctly

Step 3 – Initial Configuration

Task	Details
Component structure	Functional/class-based
File naming	Custom conventions
Styling	CSS Modules, Styled Components, Tailwind CSS
Linting/formatting	Enable auto-suggestions
Review	Confirm configuration before running commands

Generate React Components with Cursor

1. Component Scaffolding

Step	Prompt / Script
Scaffold new component	Create a NavBar React component in TypeScript with props links and activeIndex. Use CSS Modules for styling. Generate TSX file and matching CSS module. Ensure accessibility features like keyboard navigation.

Mini-checklist: - Decide on component name and type
- Define props and default states
- Choose styling method
- Review auto-generated code

2. Hook Generation

Step	Prompt / Script
Generate custom hook	Generate a custom React hook called useFormValidation for validating email and password. Include state management, validation logic, and error handling. Return both values and errors.

Checklist: - Identify hook purpose
- Define input parameters and return values

- Generate hook using Cursor prompt
- Integrate and test

3. Template Management

Step	Prompt / Script
Save reusable template	Treat this button component as a reusable template. Apply the same structure and styling when generating new button components.
Update template	Update this template to include dark mode support.

Mini-checklist: - Identify reusable components/hooks

- Save templates with descriptive names
- Customize templates
- Use prompts for modifications

Debugging and Refactoring with Cursor

1. Error Detection

Step	Prompt / Script
Detect common issues	Scan src/components and src/hooks for common React issues like missing keys, incorrect dependency arrays, unused props, and prop drilling. List issues with file paths and suggested fixes.
Suggest prop fixes	Suggest prop type fixes for all functional components.

Workflow: - Select folders/files

- Run prompt
- Review issues and apply fixes
- Re-run prompt to confirm

2. Performance Optimization

Step	Prompt / Script
Analyze component	Review ComponentName.tsx and identify potential causes of unnecessary renders. Suggest optimizations such as memoization, component splitting, or caching.

Checklist:

- Detect slow-rendering components
- Apply `React.memo` where appropriate
- Split large components
- Re-test performance

3. Code Refactoring Prompts

Step	Prompt / Script
Refactor component	Refactor this component to improve readability and reduce complexity without changing behavior.
Refactor hook	Refactor this hook to reduce unnecessary state updates and improve clarity.

Workflow:

- Select target component/hook
- Prompt Cursor with goal
- Compare before/after
- Test functionality

Productivity Impact Table

Metrics	Example	Time Saved	Errors Reduced
Component scaffolding	NavBar, Button	40%	0-1 per file
Hook generation	<code>useFormValidation</code>	35%	0
Debugging suggestions	Error detection prompts	25%	2-3 per file

Workflow Tips & Best Practices

Mini-Checklist

- Define templates for commonly used components
- Keep Cursor prompts specific
- Review auto-generated code for edge cases
- Document recurring patterns

Version Control

- Commit small increments
- Tag reusable templates

- Separate experimental changes in feature branches
- Include prompts in commit messages

Team Collaboration Prompts

Prompt Examples

Generate accessible modal component with keyboard navigation.

Create reusable form hook with validation for email and password.

Refactor button components to follow new CSS module conventions.

Checklist: - Save team-specific prompt templates

- Share runbooks and guides
- Review and approve generated code collectively