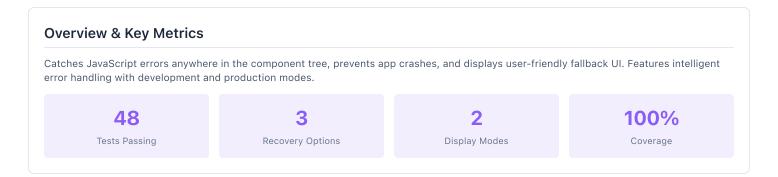
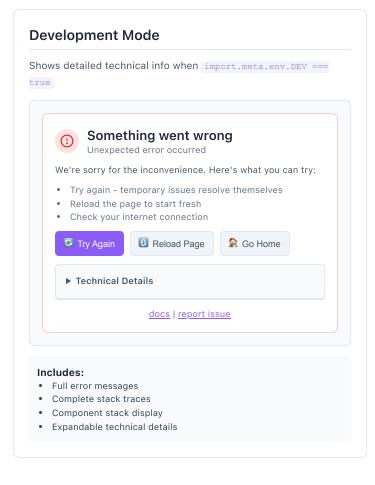
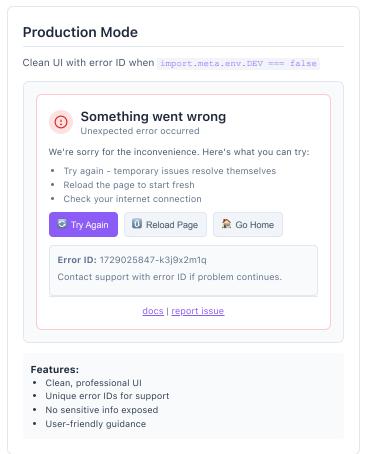
# **ErrorBoundary UI States**

CodeScribe AI - Production-Ready Error Handling Component

ErrorBoundary.jsx • 48 Tests Passing • October 14, 2025







#### **Development vs Production Comparison**

Feature	Development	Production
Error Message	✓ Full details	✓ User-friendly
Stack Trace	✓ Visible	X Hidden
Component Stack	✓ Full tree	X Hidden
Error ID	X Not shown	✓ Unique ID
Recovery Actions	✓ All 3 options	✓ All 3 options
Console Logging	✓ Detailed	✓ Basic

#### **Recovery Actions**



- Resets error state
- Re-renders components
- Preserves app state
- Best for temporary issues

Use: Network glitches, race conditions

## Reload Page

- Full page refresh
- Clears all state
- Reloads resources
- Guaranteed fresh start

Use: Persistent errors, corrupted state

### ♠ Go Home

- Navigates to root
- Clears route state
- Returns to safe state
- Gentle recovery

Use: Route-specific errors

#### Implementation & Integration

#### **Component Structure:**

- Class: React.Component for error lifecycle
- State: hasError, error, errorInfo, errorCount
- Methods: getDerivedStateFromError(), componentDidCatch()
- Recovery: handleReset(), handleReload(), handleGoHome()
- Environment: Detects via import.meta.env.DEV

#### Integration (main.jsx):

Best Practice: Place ErrorBoundary at root level to catch all errors.

Test Coverage: 48 tests covering normal rendering, error catching, recovery actions, dev/prod modes, accessibility, edge cases, and responsive design

CodeScribe AI • ErrorBoundary Component • client/src/components/ErrorBoundary.jsx • October 14, 2025