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API Integration Standards

API Client Structure

- Use Axios as the primary HTTP client
- Create typed API functions in src/api/ directory
- Implement proper request/response interceptors
- Handle authentication tokens consistently

Error Handling

- Implement comprehensive error handling for all API calls
- Use consistent error response format
- Log errors appropriately for debugging
- Provide meaningful error messages to users

Referenced Templates

@api-client-template.ts

Custom Hooks Standards

Hook Naming and Structure

- Hook names must start with use prefix
- Use descriptive names that indicate the hook's purpose
- Place hooks in src/hooks/ directory
- Export both the hook and its types

Hook Guidelines

- Return objects with named properties for multiple values (not arrays)
- Include proper TypeScript typing for parameters and return values
- Handle loading states and errors consistently
- Use proper cleanup in useEffect hooks
- Document complex hooks with JSDoc comments

Referenced Template

@hook-template.ts

File Structure Standards

Directory Organization

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File Naming Conventions

- Components: PascalCase (UserProfile.tsx)
- Hooks: camelCase with use prefix (useUserData.ts)
- Utilities: camelCase (dateHelpers.ts)
- Types: PascalCase (UserTypes.ts)
- Tests: Same as source with .test or .spec suffix

React Component Standards

Component Structure

React components should follow this standardized structure:

- 1. Imports External libraries first, then internal imports
- 2. **Types/Interfaces** Component props and local types
- 3. Component Definition Functional component with proper typing
- 4. Export Named export (preferred over default)

TypeScript Requirements

- All components must be properly typed
- Use React.FC<Props> or explicit return type annotation
- Define props interface above component
- Avoid any type use proper typing or unknown

Component Guidelines

- Use functional components with hooks exclusively
- Keep components focused and single-responsibility
- Extract complex logic into custom hooks
- Use descriptive, PascalCase component names
- Include JSDoc comments for complex components

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Referenced Template

@component-template.tsx

Testing Standards

Testing Framework

- Use Vitest as the primary testing framework
- Use React Testing Library for component testing
- Use MSW (Mock Service Worker) for API mocking

Test Structure

- Follow AAA pattern: Arrange, Act, Assert
- Use descriptive test names that explain the expected behavior
- Group related tests using describe blocks

Component Testing

- Test user interactions, not implementation details
- Query elements by role, label, or text (accessibility-first)
- Mock external dependencies appropriately

Referenced Templates

@component-test-template.tsx @hook-test-template.ts

TypeScript Standards

Type Definitions

- Use interface over type for object definitions
- Use type for unions, primitives, and computed types
- Define types close to where they're used
- Use PascalCase for interface and type names

Strict TypeScript

- Enable strict mode in tsconfig.json
- Avoid any type use unknown when type is truly unknown
- Use type assertions sparingly and with type guards
- Prefer type narrowing over type assertions

Function Typing

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• Always type function parameters and return values

- Use function overloads when necessary
- Prefer arrow functions for inline functions
- Use proper typing for async functions