

extranuts architecture modulaire 2

ere is Claude's plan: |

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| | Modularization Plan for Parallel Development | |
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| | Goal | |
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| | Restructure the codebase to enable multiple developers to work on
different features without conflicts, using a clean | |
| | modular architecture. | |
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| | Core Principles | |
| | | |
| | 1. Feature-based modules - Each feature is self-contained | |
| | 2. Minimal shared core - Only essential shared types/utilities | |
| | 3. Clear interfaces - Well-defined boundaries between modules | |
| | 4. Single responsibility - Each module does one thing well | |
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| | Proposed Architecture | |
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| | Backend (Rust/Tauri) | |
| | | |
| | src-tauri/src/ | |
| | └─ core/ # Minimal shared core | |
| |   └─ mod.rs # Core module exports | |
| |   └─ state.rs # Shared application state | |
| |   └─ error.rs # Common error types | |
| |   | |
| |   └─ features/ # Feature modules | |
| |     └─ mod.rs # Feature registration | |
| |     | |
| |     └─ notes/ # Notes feature | |
| |       └─ mod.rs # Public interface | |
| |       └─ commands.rs # Tauri commands | |
| |       └─ service.rs # Business logic | |
| |       └─ models.rs # Note-specific models | |
| |       └─ repository.rs # Database operations | |
| |       | |
| |       └─ windows/ # Window management feature | |
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| | | | └─ mod.rs | |
| | | | └─ commands.rs | |
| | | | └─ service.rs | |
| | | | └─ tray.rs | |
| | | | |
| | | └─ sync/ # Sync feature | |
| | | | └─ mod.rs | |
| | | | └─ commands.rs | |
| | | | └─ service.rs | |
| | | | └─ icloud.rs | |
| | | | |
| | | └─ preferences/ # Settings feature | |
| | | | └─ mod.rs | |
| | | | └─ commands.rs | |
| | | | └─ service.rs | |
| | | | └─ models.rs | |
| | | | |
| | | └─ search/ # Search feature | |
| | | | └─ mod.rs | |
| | | | └─ commands.rs | |
| | | | └─ service.rs | |
| | | | └─ indexer.rs | |
| | | | |
| | └─ infrastructure/ # Technical infrastructure | |
| | | └─ mod.rs | |
| | | └─ database/ | |
| | | | └─ mod.rs | |
| | | | └─ connection.rs | |
| | | | └─ migrations.rs | |
| | | └─ storage/ | |
| | | | └─ mod.rs | |
| | | | └─ paths.rs | |
| | | | |
| | └─ lib.rs # Minimal app initialization | |
| | └─ main.rs # Entry point | |
| | |
| | Frontend (SolidJS/TypeScript) | |
| | |
| | src/ | |
| | └─ core/ # Shared core | |
| | | └─ types/ # Shared types | |
| | | └─ api/ # API client | |
| | | └─ utils/ # Common utilities | |
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| | └─ features/ # Feature modules | | | |
| | | └─ notes/ | |
| | | | └─ components/ # Note-specific components | |
| | | | └─ services/ # API services | |
| | | | └─ stores/ # State management | |
| | | | └─ types.ts # Local types | |
| | | | |
| | | └─ editor/ | |
| | | | └─ components/ | |
| | | | └─ plugins/ # Editor plugins | |
| | | | └─ hooks/ | |
| | | | |
| | | └─ search/ | |
| | | | └─ components/ | |
| | | | └─ services/ | |
| | | | └─ utils/ | |
| | | | |
| | | └─ sync/ | |
| | | | └─ components/ | |
| | | | └─ services/ | |
| | | | └─ hooks/ | |
| | | | |
| | | └─ preferences/ | |
| | | └─ components/ | |
| | | └─ services/ | |
| | | └─ stores/ | |
| | | |
| | └─ shared/ # Shared UI components | |
| | | └─ components/ # Generic UI components | |
| | | └─ layouts/ # Layout components | |
| | | └─ hooks/ # Shared hooks | |
| | | |
| | └─ App.tsx # Root component (minimal) | |
| | └─ index.tsx # Entry point | |
| | |
| | Implementation Steps | |
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| | Phase 1: Backend Modularization | |
| | |
| | 1. Create core/ module with shared state and error types | |
| | 2. Extract window management into features/windows/ | |
| | 3. Move note operations into features/notes/ | |
| | 4. Separate sync logic into features/sync/ | |
| | 5. Create infrastructure layer for database/storage | |

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| | Phase 2: Frontend Modularization | |
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| | 1. Create feature folders matching backend structure | |
| | 2. Move components into feature-specific folders | |
| | 3. Extract shared components into shared/ | |
| | 4. Create feature-specific service layers | |
| | |
| | Phase 3: Interface Definition | |
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| | 1. Define clear TypeScript interfaces for each feature | |
| | 2. Create feature manifests for registration | |
| | 3. Implement dependency injection for services | |
| | 4. Add feature flags for optional features | |
| | |
| | Phase 4: Testing & Documentation | |
| | |
| | 1. Add unit tests per feature module | |
| | 2. Create integration tests for feature interactions | |
| | 3. Document each module's public API | |
| | 4. Add README.md in each feature folder | |
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| | Benefits | |
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| | 1. Parallel Development: Developers can work on separate features
without conflicts | |
| | 2. Clear Ownership: Each feature can have a designated owner/team
| |
| | 3. Easy Testing: Features can be tested in isolation | |
| | 4. Scalability: New features can be added without touching core |
|
| | 5. Code Reuse: Shared components are clearly identified | |
| | 6. Onboarding: New developers can focus on one feature at a time |
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| | Migration Strategy | |
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| | 1. Start with backend modularization (less UI impact) | |
| | 2. Migrate one feature at a time | |
| | 3. Keep existing APIs working during migration | |
| | 4. Update imports gradually | |
| | 5. Run tests after each migration step | |
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| | Example: Working on Search Feature | |
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| | A developer working on search would only touch: | |
| | - src-tauri/src/features/search/ | |
| | - src/features/search/ | |
| | - Their feature's models and commands | |
| | | |
| | They wouldn't need to modify: | |
| | - Core application files | |
| | - Other features' code | |
| | - Shared infrastructure (unless adding new capabilities) | |
| | | |
| | This structure ensures minimal merge conflicts and clear
boundaries between different development efforts.
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