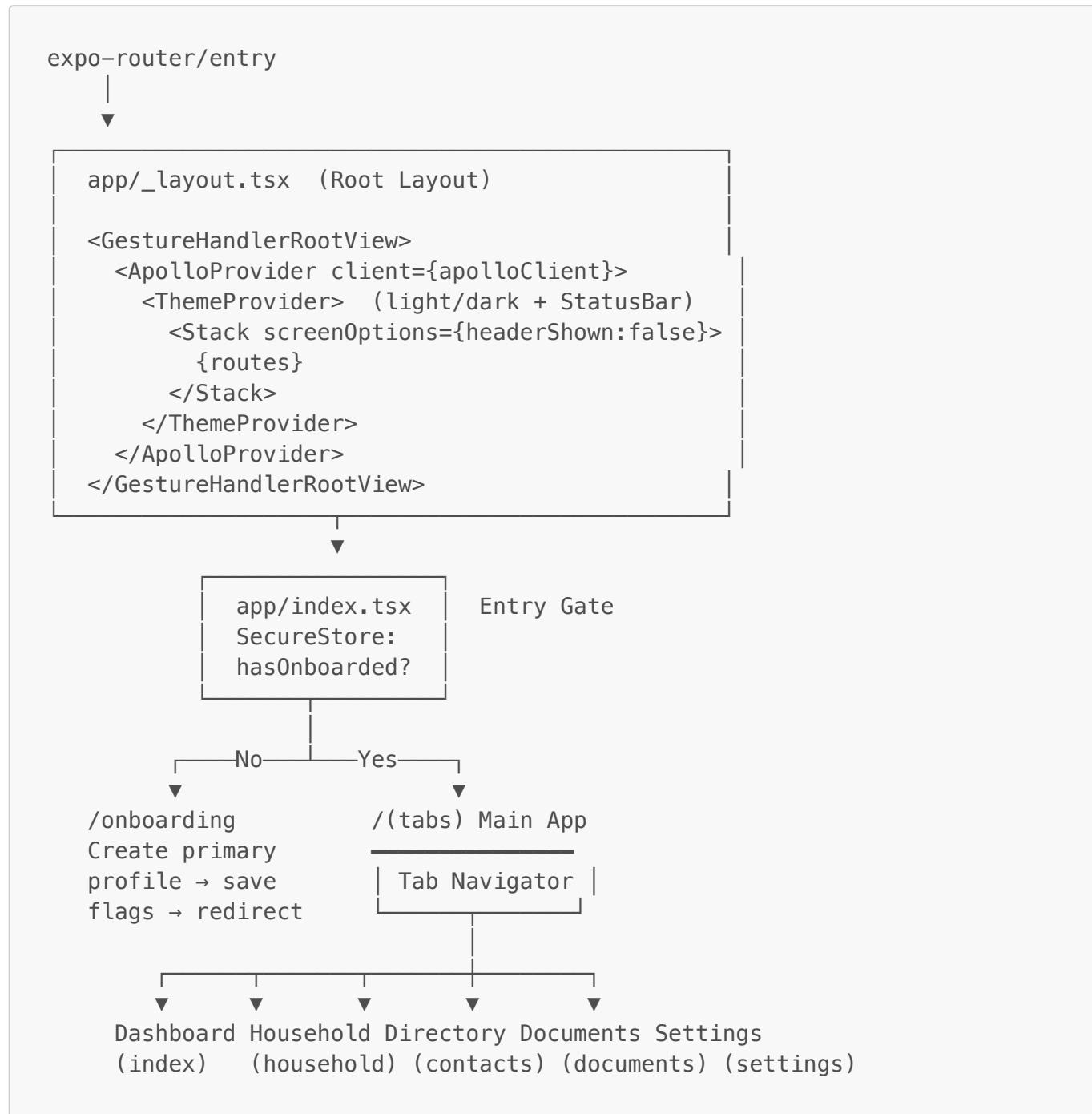


# LifeVault RN — Code Flow Visualization

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## 1. App Bootstrap & Entry

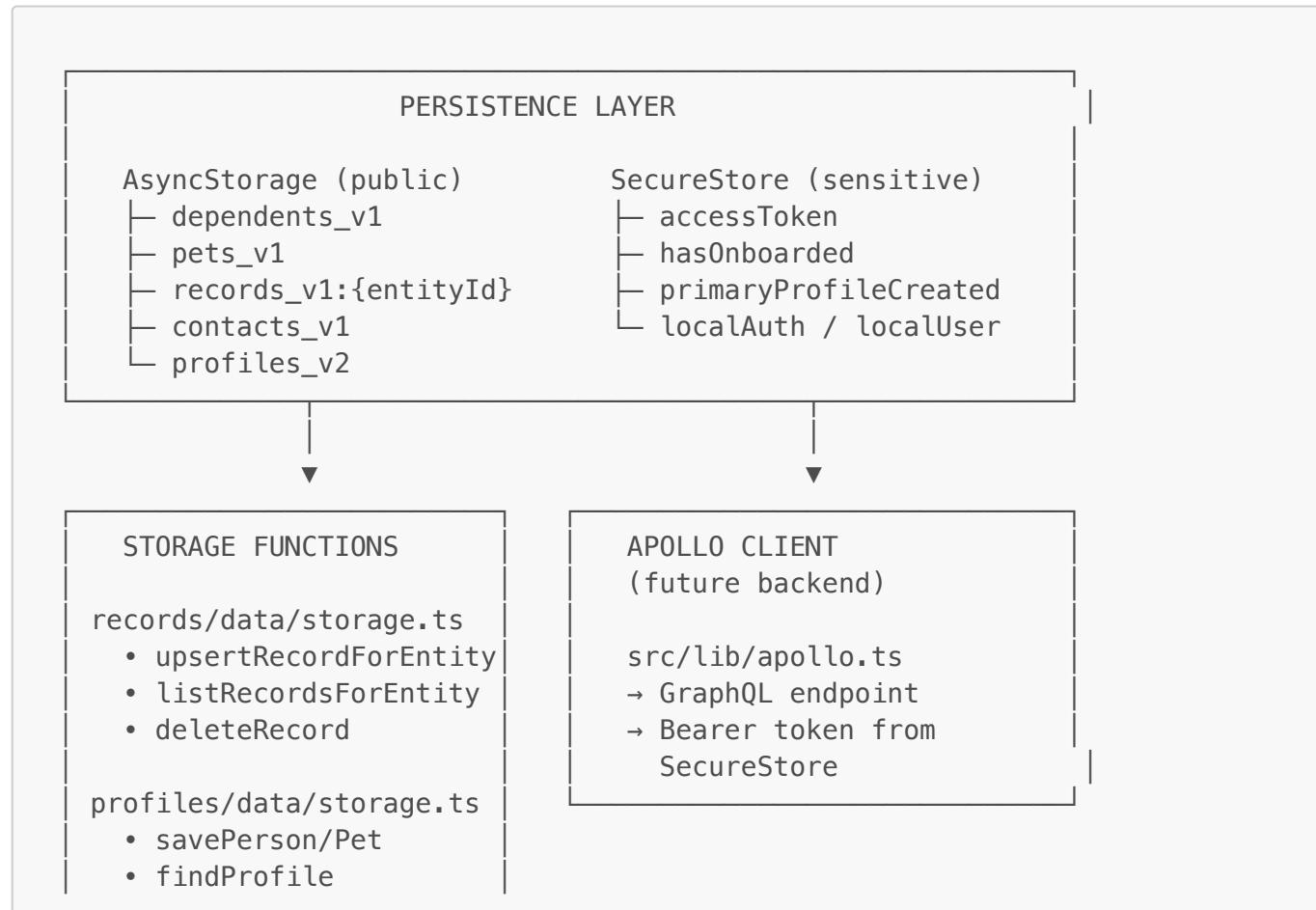


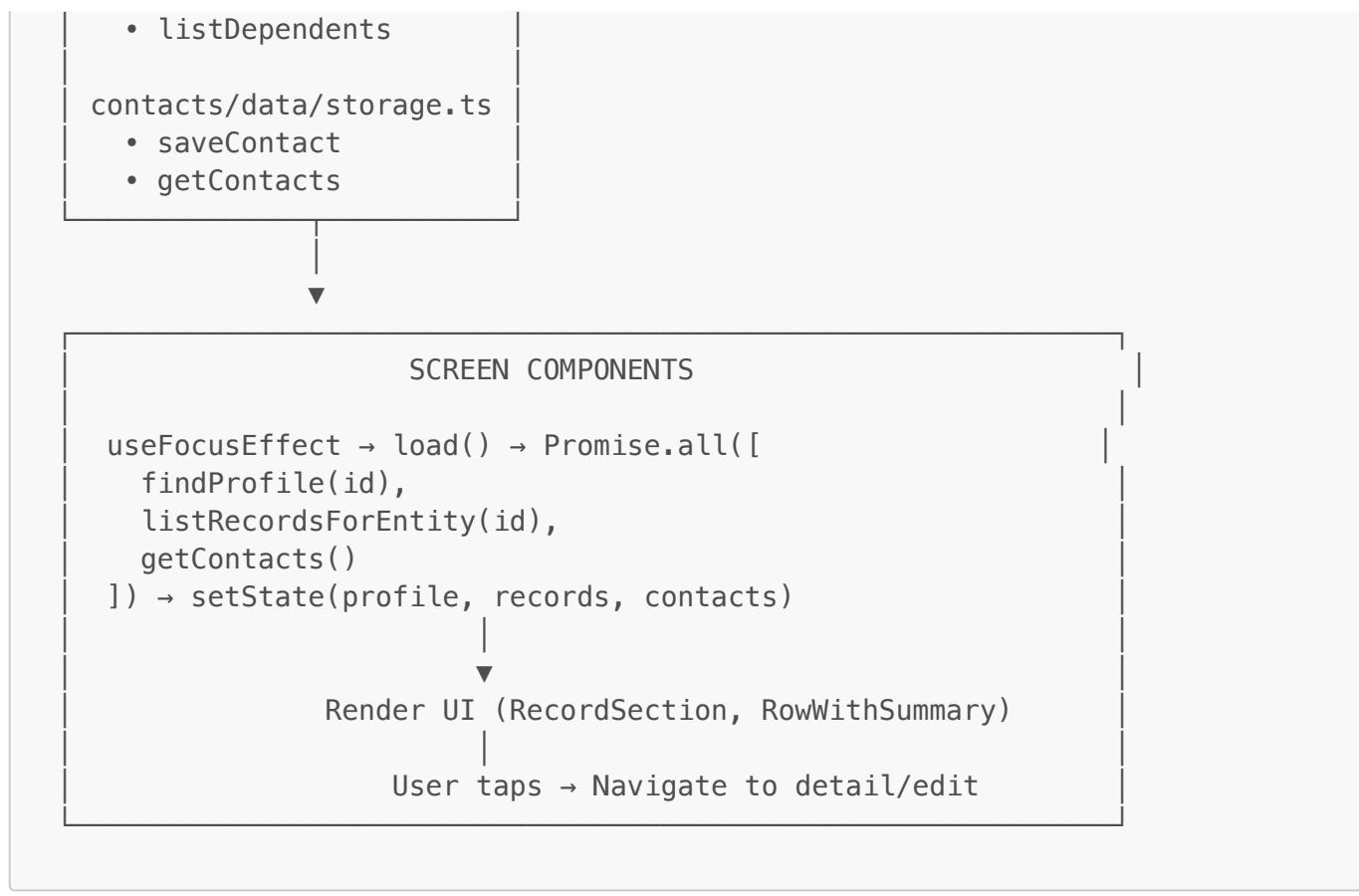
## 2. Navigation Hierarchy



documents.tsx	← Documents
settings.tsx	← Settings + ThemeToggle
 (vault)/	← Feature screens (no tab bar)
people/[personId]/	
index.tsx	← Person detail (records by category)
records/	
add.tsx	← Create record
[recordId]/	
index.tsx	← View record
edit.tsx	← Edit record
pets/[petId]/	
index.tsx	← Pet detail
records/	
add.tsx	← Create record
[recordId]/	
index.tsx	← View record
edit.tsx	← Edit record
contacts/	
index.tsx	← Contact list
add.tsx	← Add contact

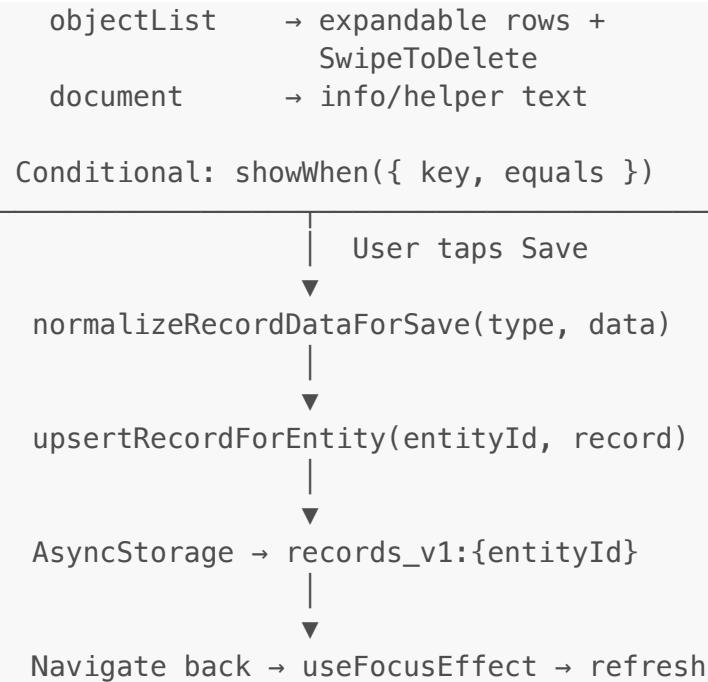
### 3. Data Flow Architecture



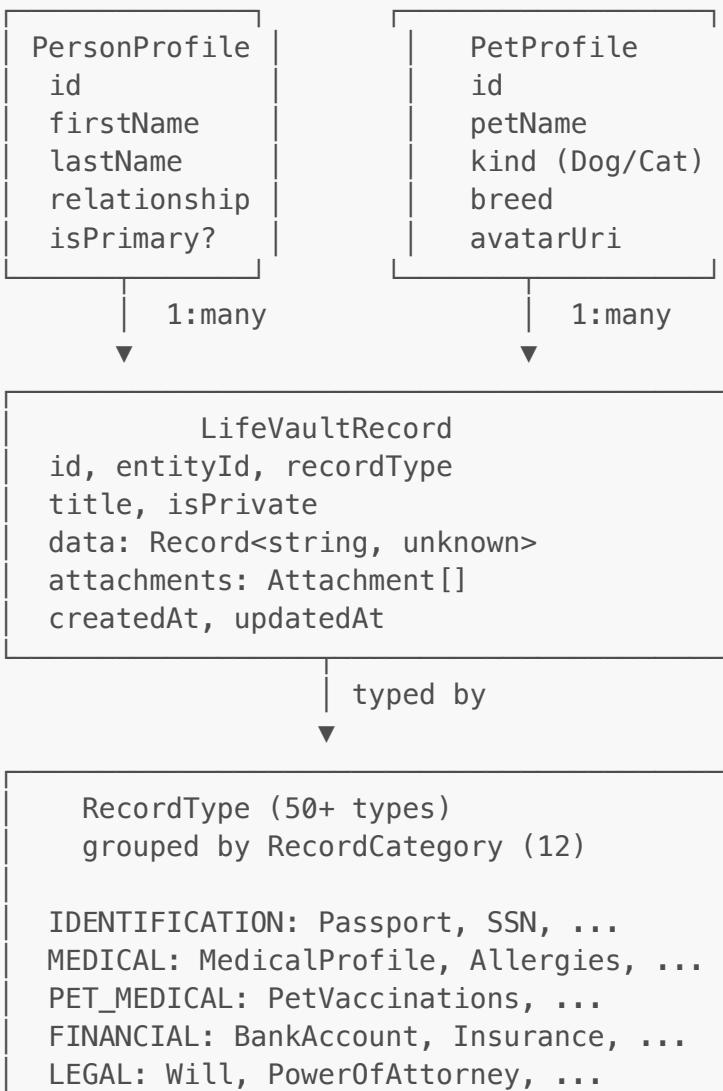


## 4. Record Creation Flow





## 5. Domain Model Relationships



EDUCATION: Transcript, Diploma, ...

...

each type has

```
RecordTypeMeta
{ label, iconKey, cardinality,
  category, sort, isPrivate?, premium? }
```

```
FORM_DEFS → FieldDef[] (form fields) |  
CANONICAL_DEFAULTS (initial values)
```

```
Contact  
categories  
isFavorite
```

linkedProfiles[] → Person/Pet

## 6. Provider Hierarchy

```
<GestureHandlerRootView>
  | (enables swipe, pan, long-press)
  |
  <ApolloProvider client={apolloClient}>
    | (provides GraphQL queries/mutations)
    |
    <ThemeProvider>
      | (provides light/dark mode via nativewind)
      |
      <Stack screenOptions={{ headerShown: false }}>
        | (Expo Router stack navigation)
        |
        {routes}
      </Stack>
    </ThemeProvider>
  </ApolloProvider>
</GestureHandlerRootView>
```

## 7. Key Architecture Summary

Layer	Technology	Location
Routing	Expo Router (file-based)	app/
UI Styling	NativeWind + Tailwind CSS	className props

Layer	Technology	Location
State	Local <code>useState + useFocusEffect</code>	Per-screen
Persistence	AsyncStorage + SecureStore	<code>src/features/*/data/</code>
API (future)	Apollo Client + GraphQL	<code>src/lib/apollo.ts</code>
Domain Models	TypeScript types + registry	<code>src/domain/records/</code>
Form System	Dynamic FieldDef rendering	<code>src/features/records/forms/</code>
Theme	nativewind <code>useColorScheme</code>	<code>src/shared/theme/</code>
Icons	lucide-react-native	Via Icon component

## 8. Key Dependencies

Package	Version	Purpose
react	19.1.0	Core framework
react-native	0.81.5	Mobile runtime
expo	~54.0.33	Platform toolchain
expo-router	~6.0.23	File-based routing
nativewind	4.2.1	Tailwind for RN
@apollo/client	3.14.0	GraphQL client
@react-native-async-storage	2.2.0	Local persistence
expo-secure-store	15.0.8	Encrypted storage
lucide-react-native	0.510.0	Icon library
date-fns	4.1.0	Date utilities
react-native-gesture-handler	2.28.0	Gesture system

Generated on 2026-02-22 — LifeVault React Native Architecture