HabitBloom - One-Page App Summary

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What It Is

HabitBloom is a Kotlin Multiplatform habit-tracking app with shared business logic and Compose Multiplatform UI for Android and iOS. It helps users create habits, track daily completion records, and monitor progress across home, calendar, statistics, and garden views.

Who It’s For

- Primary user/persona: Not found in repo (no explicit persona definition).
- Repo-inferred audience: people who want to build routines and track habit consistency over time.

What It Does

- Runs a tabbed experience with Home, Statistics, Calendar, and Settings, plus a Garden flow.
- Supports onboarding and app entry routing based on onboarding completion state.
- Lets users add habits, including personal/custom habits with selectable icons and images.
- Tracks completion by date and time-of-day buckets (Morning, Afternoon, Evening).
- Calculates streaks and completion metrics for weekly, monthly, and yearly statistics.
- Schedules and cancels reminder notifications through platform-specific notification schedulers.

How It Works (Repo Evidence)

- Presentation: Compose screens and ViewModels (Home, Statistics, Calendar, Settings, Garden, Add Habit).
- Dependency injection: Koin modules wire remoteData, localData, domain, data, viewModel, platform, and navigation.
- Domain/data orchestration: HabitsRepository combines Firestore remote data, SQLDelight local data, Supabase storage, and notification services.
- Local persistence: SQLDelight entities UserHabitsEntity, UserHabitRecordsEntity, and FlowerHealthEntity.
- Data flow: UI/ViewModel -> Repository -> (Firestore + Supabase + SQLDelight + notifications) -> Kotlin Flow updates -> UI.

How To Run (Minimal)

- Open the project and ensure toolchain prerequisites from README are installed (Android Studio, Xcode for iOS, JDK 17+).
- Add Firebase configs: composeApp/google-services.json and iosApp/iosApp/GoogleService-Info.plist.
- Set Supabase URL and anon key in SupabaseConfig.kt; use bucket name "habit_images".
- Android: run the composeApp configuration in Android Studio.
- iOS: open iosApp/iosApp.xcworkspace in Xcode and run.

Evidence sources: README, App/MainScreen, DI modules, repositories, view models, SQLDelight schema.