

# What We Know for Sure About Firebase

## Initialization & Configuration

Firebase is initialized explicitly in `lib/bootstrap.dart` using `Firebase.initializeApp` with `DefaultFirebaseOptions`. Firebase options are generated via FlutterFire CLI and include `projectId`, `appId`, `messagingSenderId`, `apiKey`, `databaseURL`, and `storageBucket`. Firebase configuration files exist for Android and iOS. Web and desktop platforms are explicitly not supported.

## Cloud Firestore

Cloud Firestore is explicitly used. Firestore offline persistence is enabled with unlimited cache size. Firestore is used across multiple modules including notes, skincare routines, and skincare products, with confirmed usage of collection, document, set, update, delete, get, and snapshot operations.

## Firebase Authentication

Firebase Auth is explicitly used for authentication. `FirebaseAuth.instance` is registered in dependency injection. Confirmed authentication flows include email/password login, account creation, credential-based sign-in, password reset, email verification, sign-out, and account deletion. Auth state is observed via `authStateChanges` and `userChanges`.

## Firebase Cloud Messaging

Firebase Cloud Messaging is explicitly used for notifications. Background message handling is registered. The app requests notification permissions, retrieves and refreshes FCM tokens, listens for foreground and background messages, and saves FCM tokens via `ParseServerService`.

## Firebase Remote Config

Firebase Remote Config is explicitly used. Default values are set, remote values are fetched and activated, and configuration values are accessed using typed getters.

## Firebase Crashlytics

Firebase Crashlytics is explicitly used for error reporting. It captures Flutter framework errors, BLoC errors, navigation logs, and initialization failures.

## **Firebase Analytics**

Firebase Analytics is explicitly integrated. Analytics observers are attached to the app navigation stack, and analytics events, screen views, and user identifiers are logged when enabled.

## **Not Confirmed from Code or Documentation**

Firebase Storage usage is not confirmed from code or documentation. Firebase Realtime Database usage is not confirmed. `firebase_ui_firestore` usage is not confirmed.