

Authentication



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Overview



Why authentication

- Remote vs. local authentication
- How Firebase Authentication works

Setup

- Android
- iOS
- Firebase

Define authentication flow

Implement

- Username and password sign up and sign-in
- Apple sign-in
- Google sign-in
- Anonymously sign-in



Understanding Authentication



Authentication:

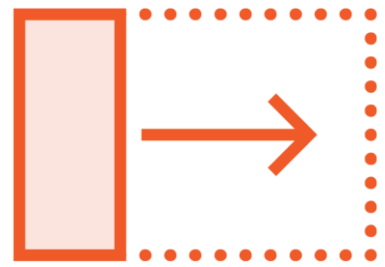
The act of proving an assertion such as verify identity of a computer system user. In fact, authentication is a way to give access to a secure system based on the user credentials.



User Authentication



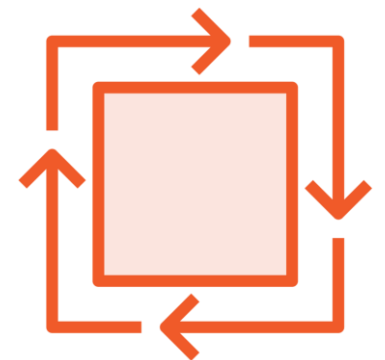
Benefits



Personalized experience



Data is secure and only accessible to the user



We can provide private data on different platforms to user



Mobile Apps Authentication



Local

**Passcode
Touch ID / Face ID**

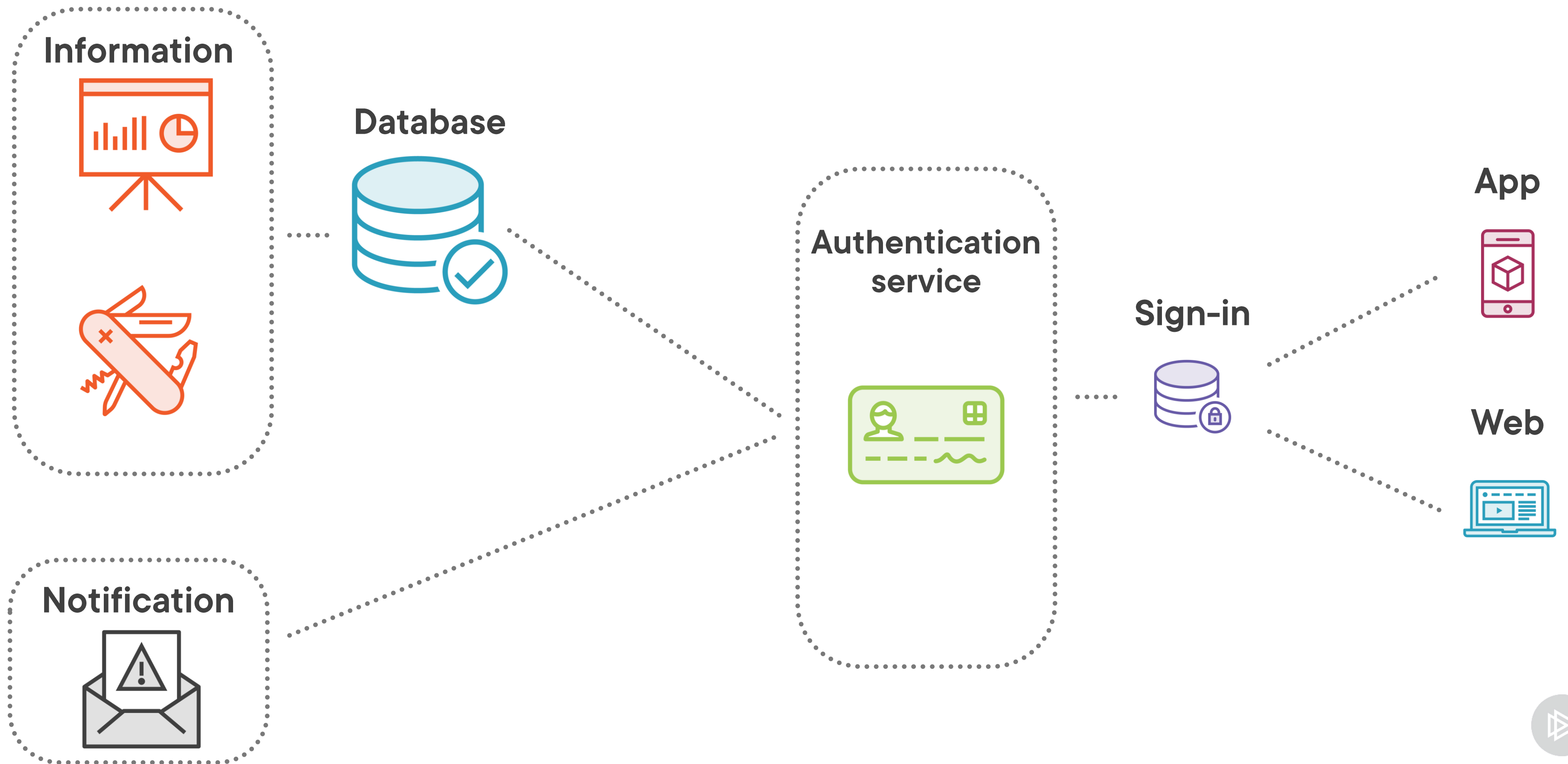


Remote

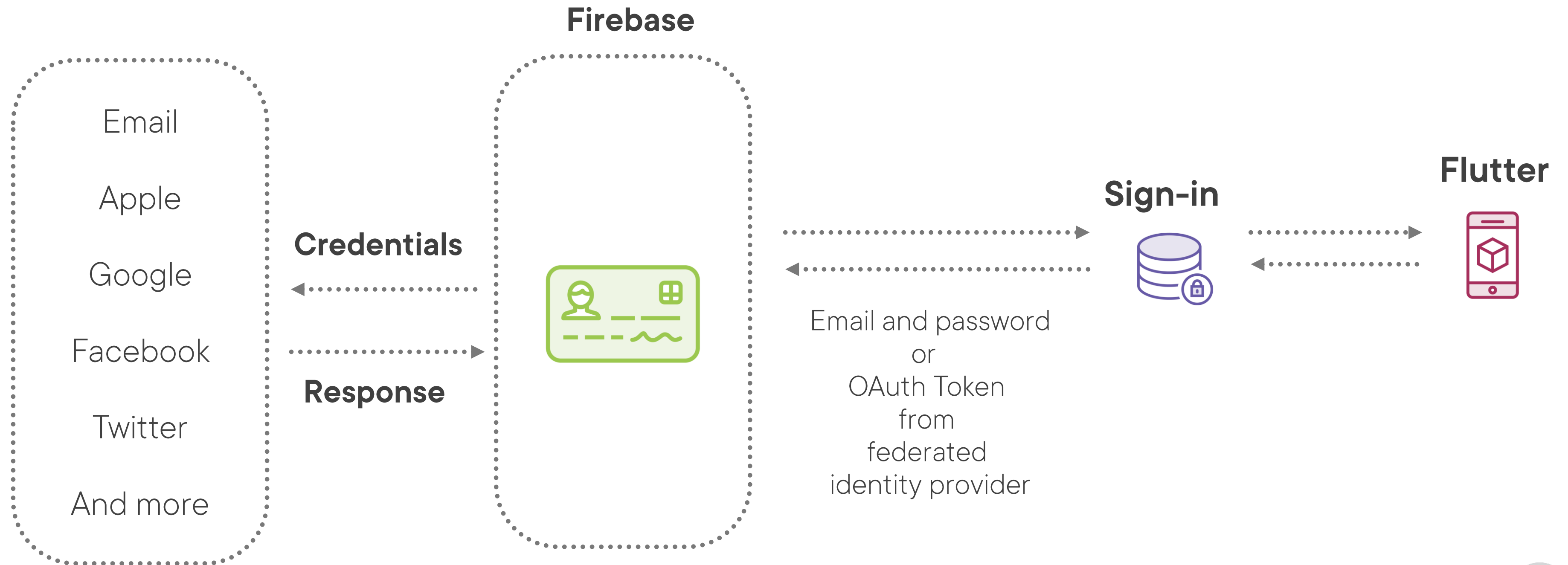
**Authenticating with a server with
store user credentials and data**



Remote Authentication



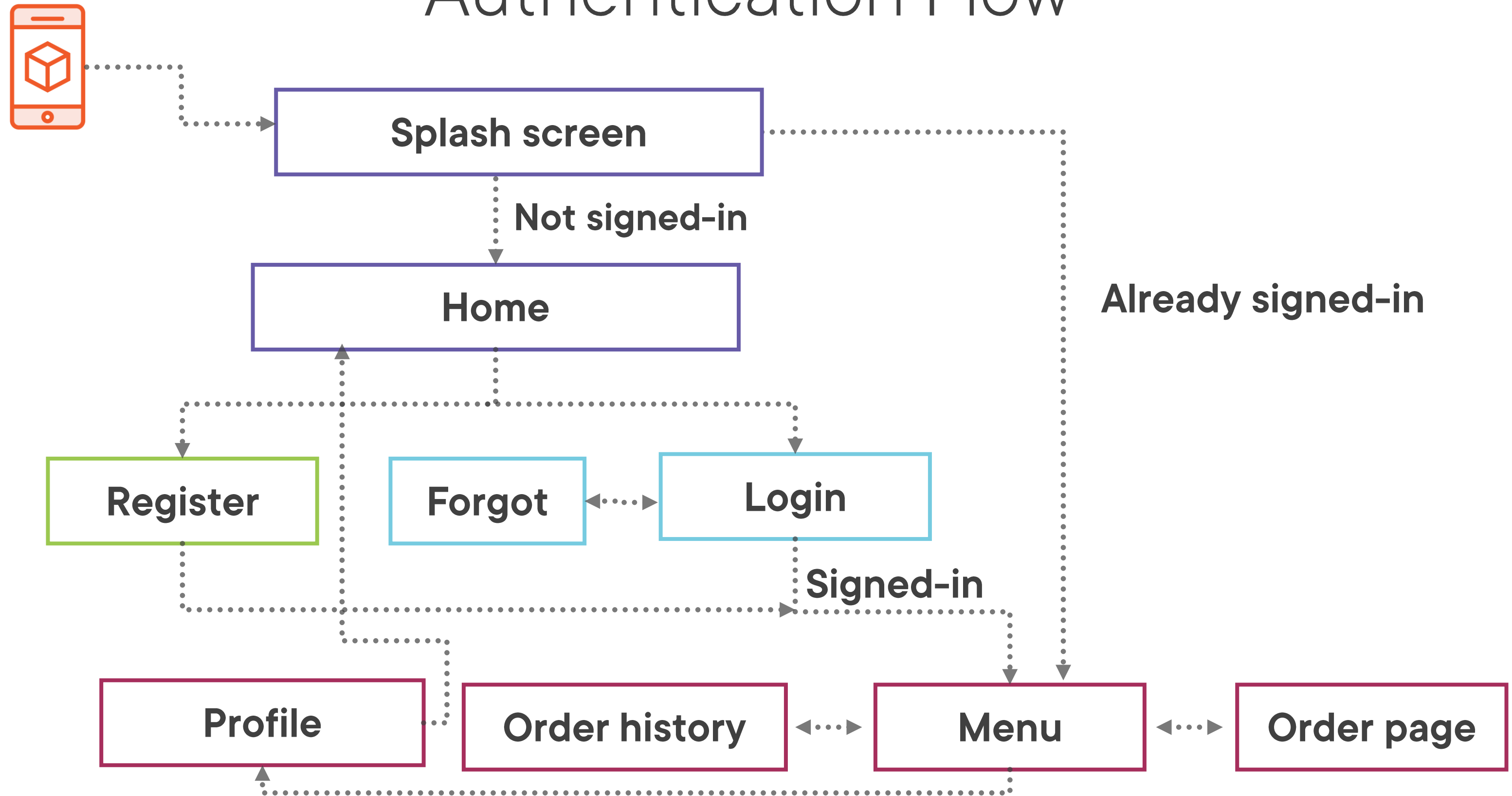
Firebase Authentication



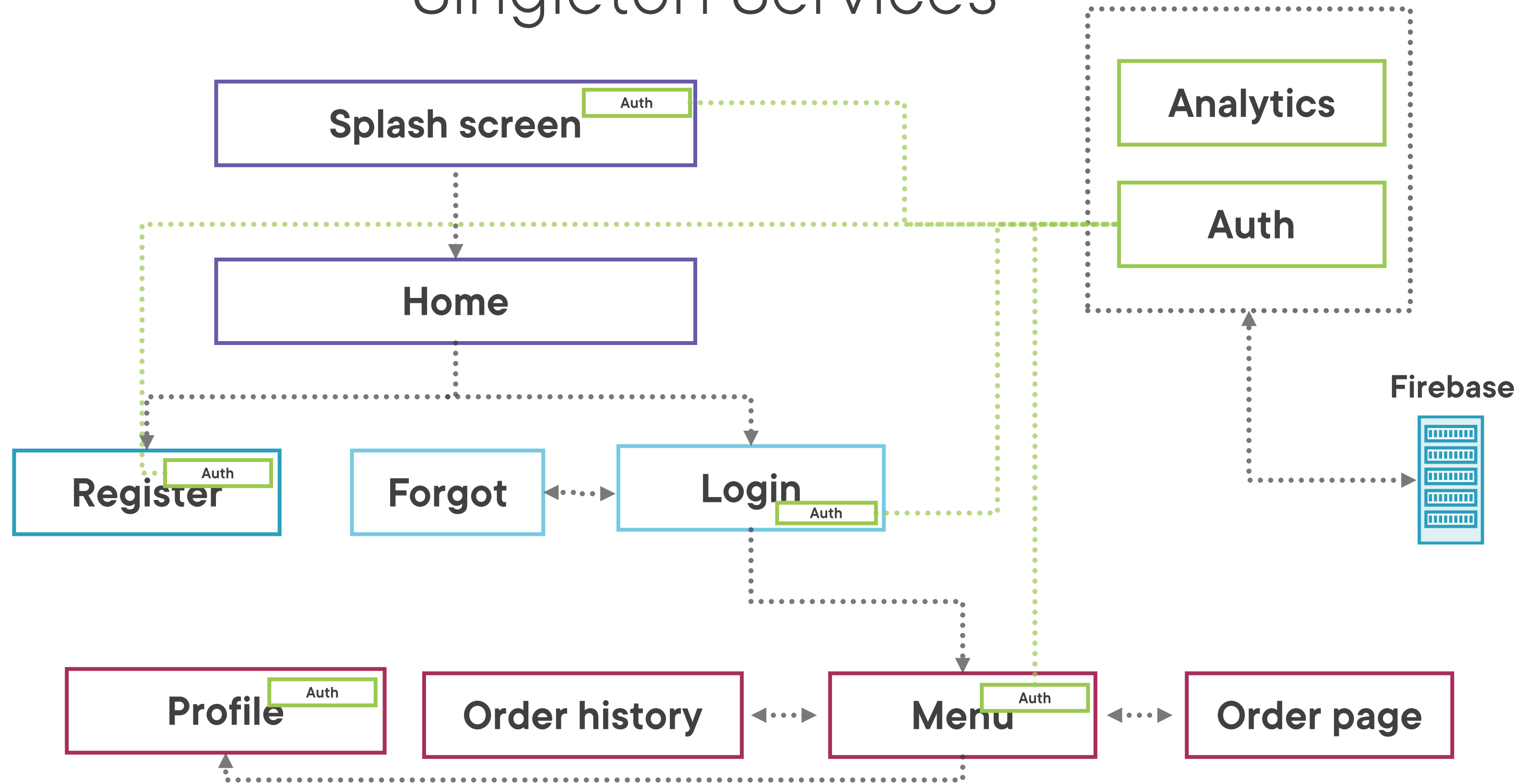
Setup Firebase, Android, iOS, and Flutter



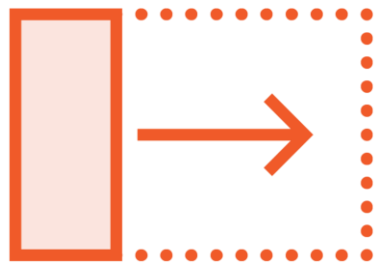
Authentication Flow



Singleton Services



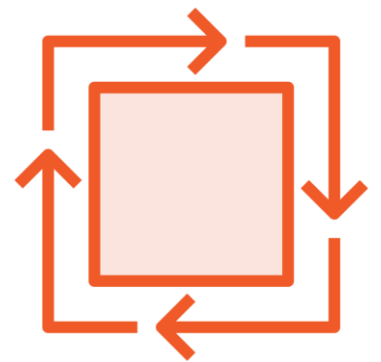
Simple and Built-in



Singleton services



StreamBuilder



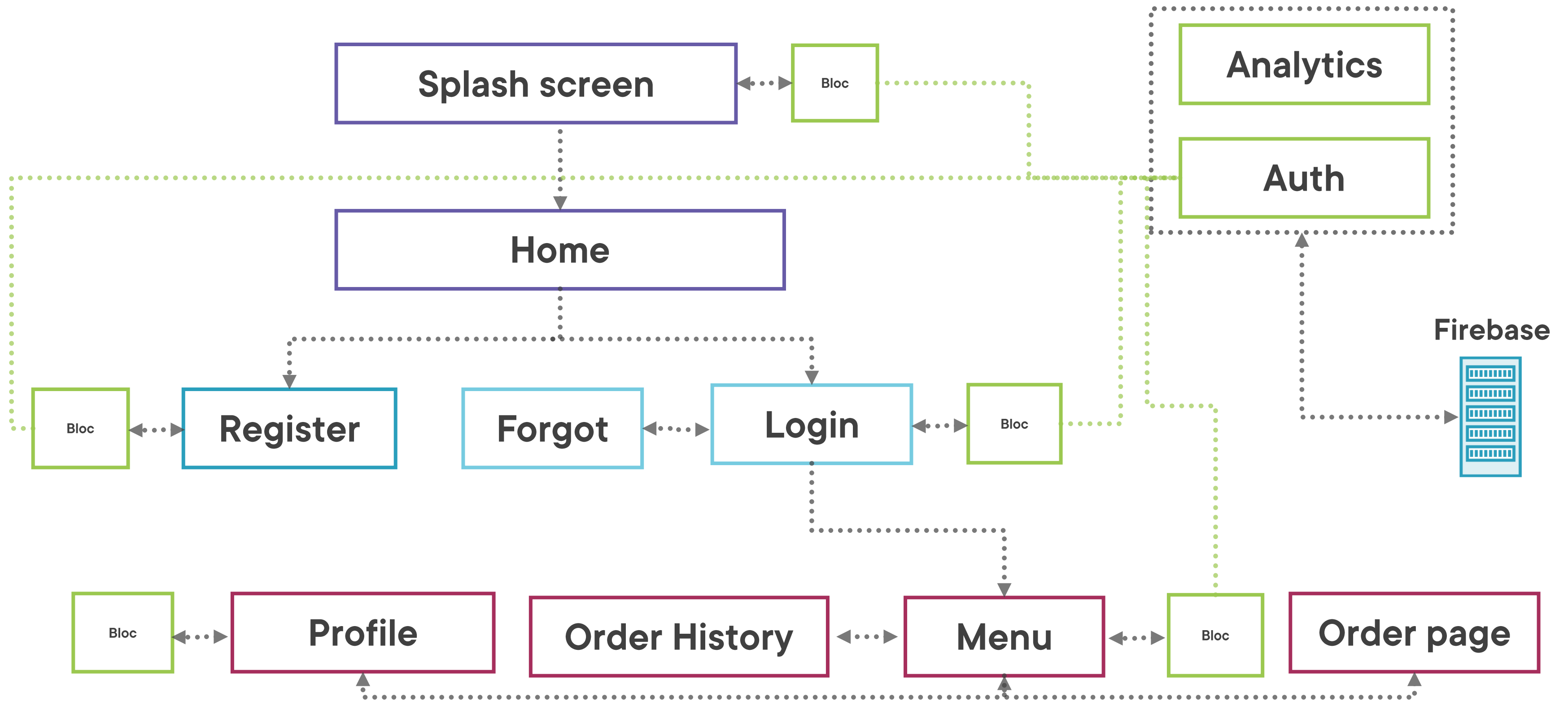
StatefulWidget



There are many ways to
architect your app



Separation of Concerns



Demo



Setup Firebase

Setup Flutter

- Install plugins
- Setup iOS
- Setup Android
- Create Auth service singleton
- Prepare and create authentication flow



Up Next:
Implement Username and Password



Demo



Implement

- Sign up with username and password
- Login with username and password
- Forgot password
- Sign out
- Login Firebase Analytics



Google Sign-in



Demo



Implement sign-in with Google

- Flutter
- iOS
- Android
- Sign out
- Log in Firebase Analytics



Up Next:
Apple Sign-in



Demo

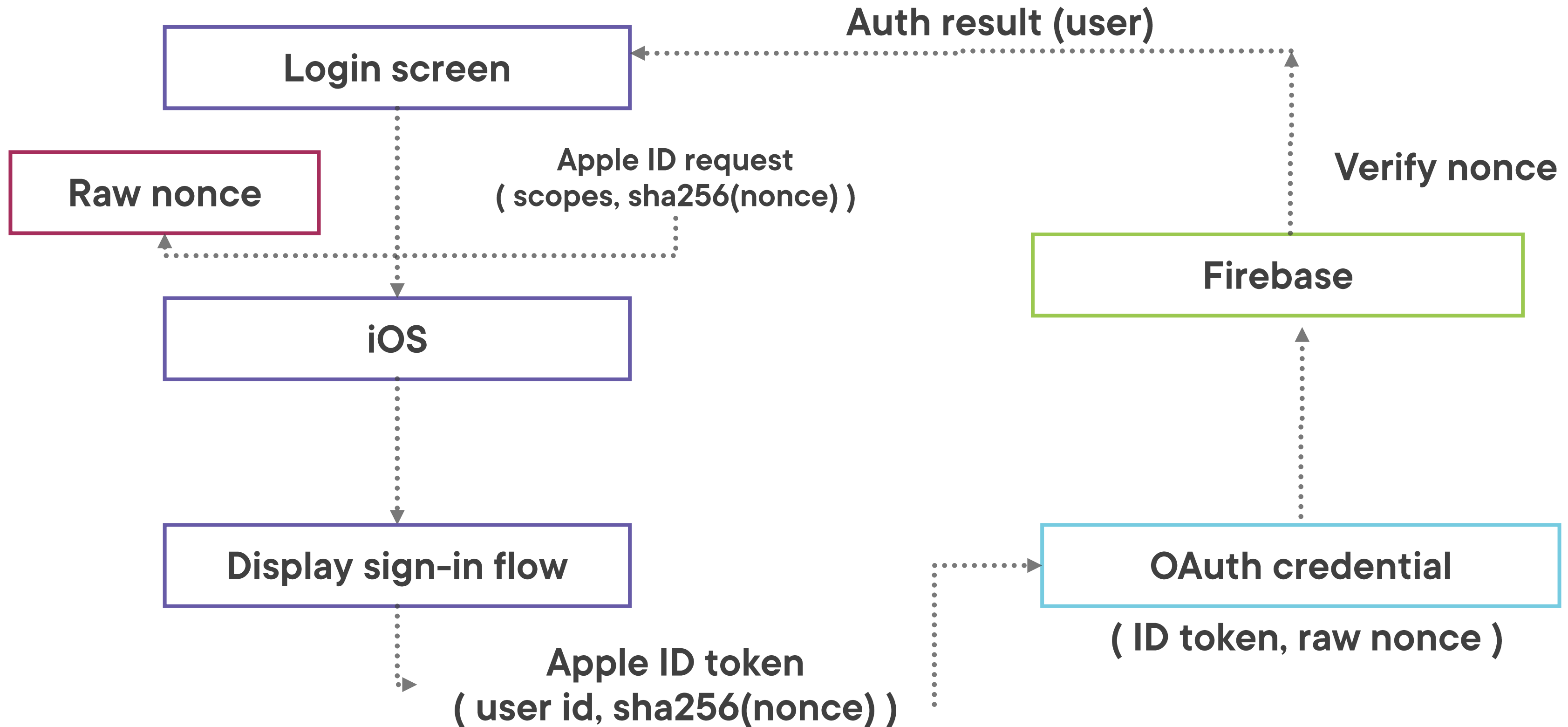


Implement sign-in with Apple

- Flutter
- iOS
- Android



Apple Sign-in: Nonce Flow



Up Next:
Anonymous Sign-in



Demo



Implement anonymous sign-in



Summary



Why authentication

- Remote vs local authentication

Setup

- Android
- iOS
- Firebase

Define authentication flow

Implement

- Username and password signup & login
- Apple login
- Google login
- Anonymously login



Up Next:
Database Management

