



Flutter STUDY JAM



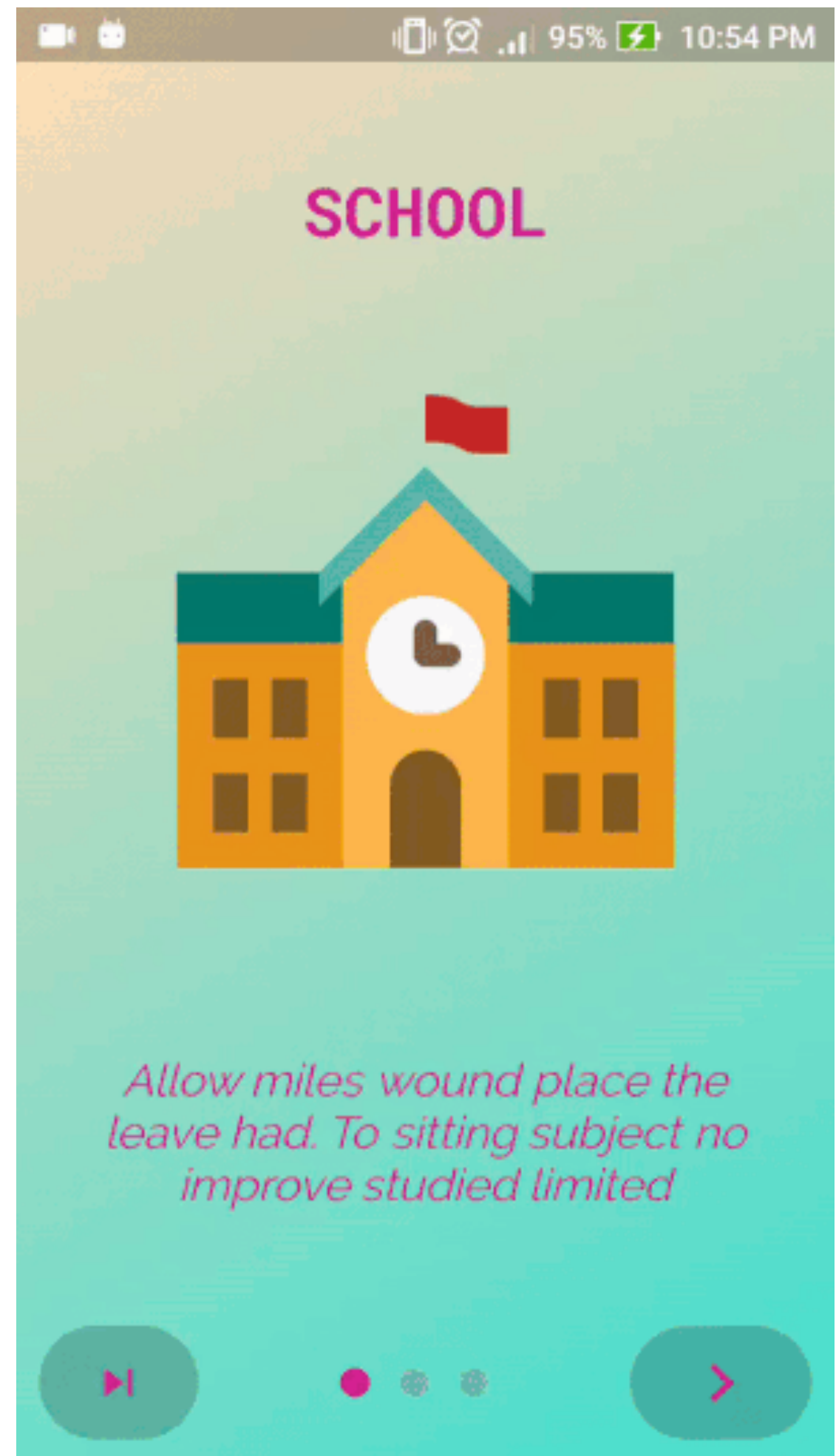
Hello! My name is
Dash! I am
excited for Study
Jams!



1. What is Flutter?
2. What is new and exciting about Flutter?
3. Feature

What is Flutter?

Flutter is **Google's mobile app SDK** for crafting **high-quality native interfaces** on iOS and Android **in record time.**





Flutter works with **existing code**, is used by developers and organizations around the world, and is **free** and **open source**.

Oh Yes! IT'S
FREE

What is new and exciting about Flutter?



Native Apps for IOS and Android



Compiles directly to native ARM code(Does not use a JavaScript bridge)

GPU accelerated

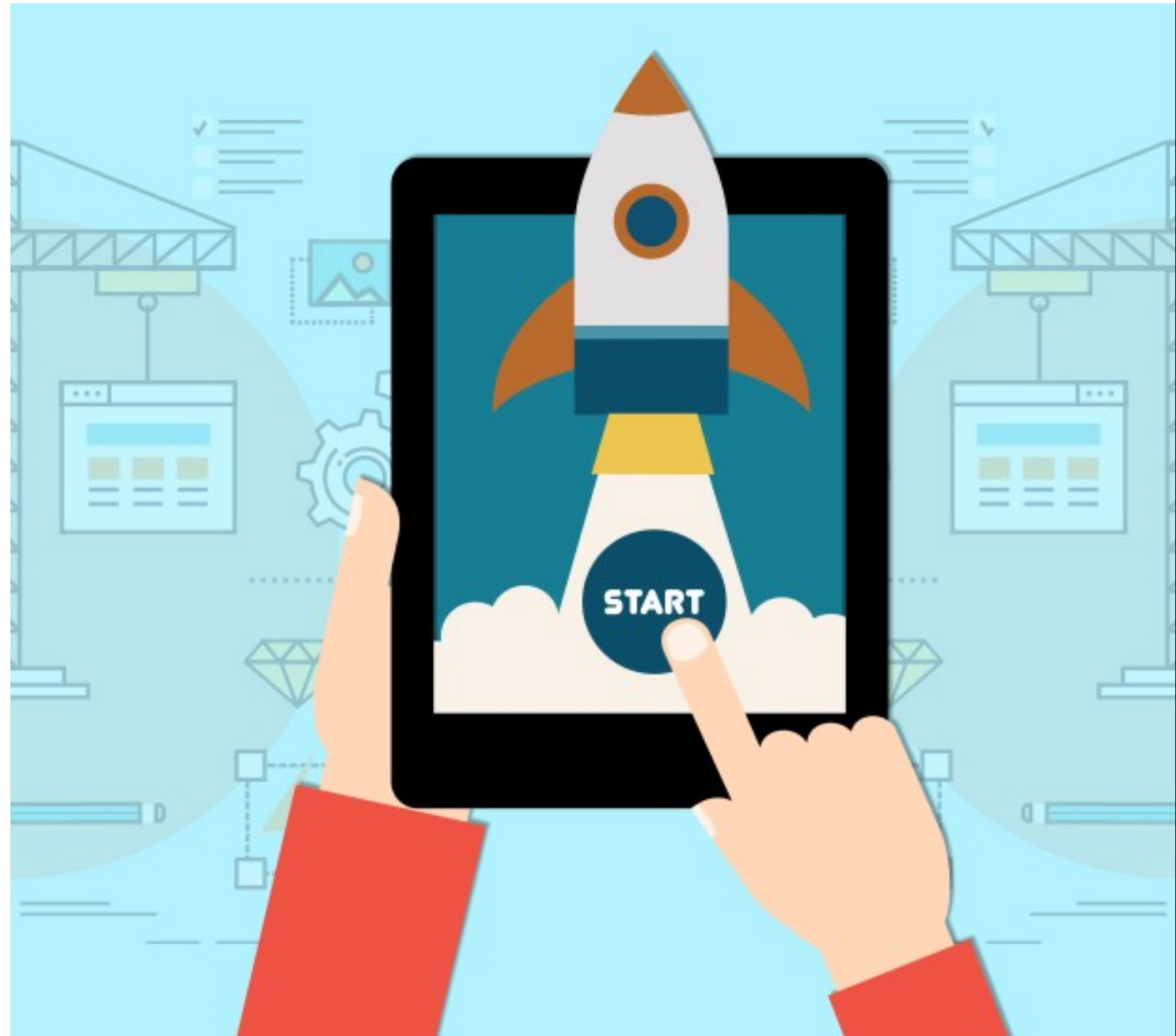
Smooth animations

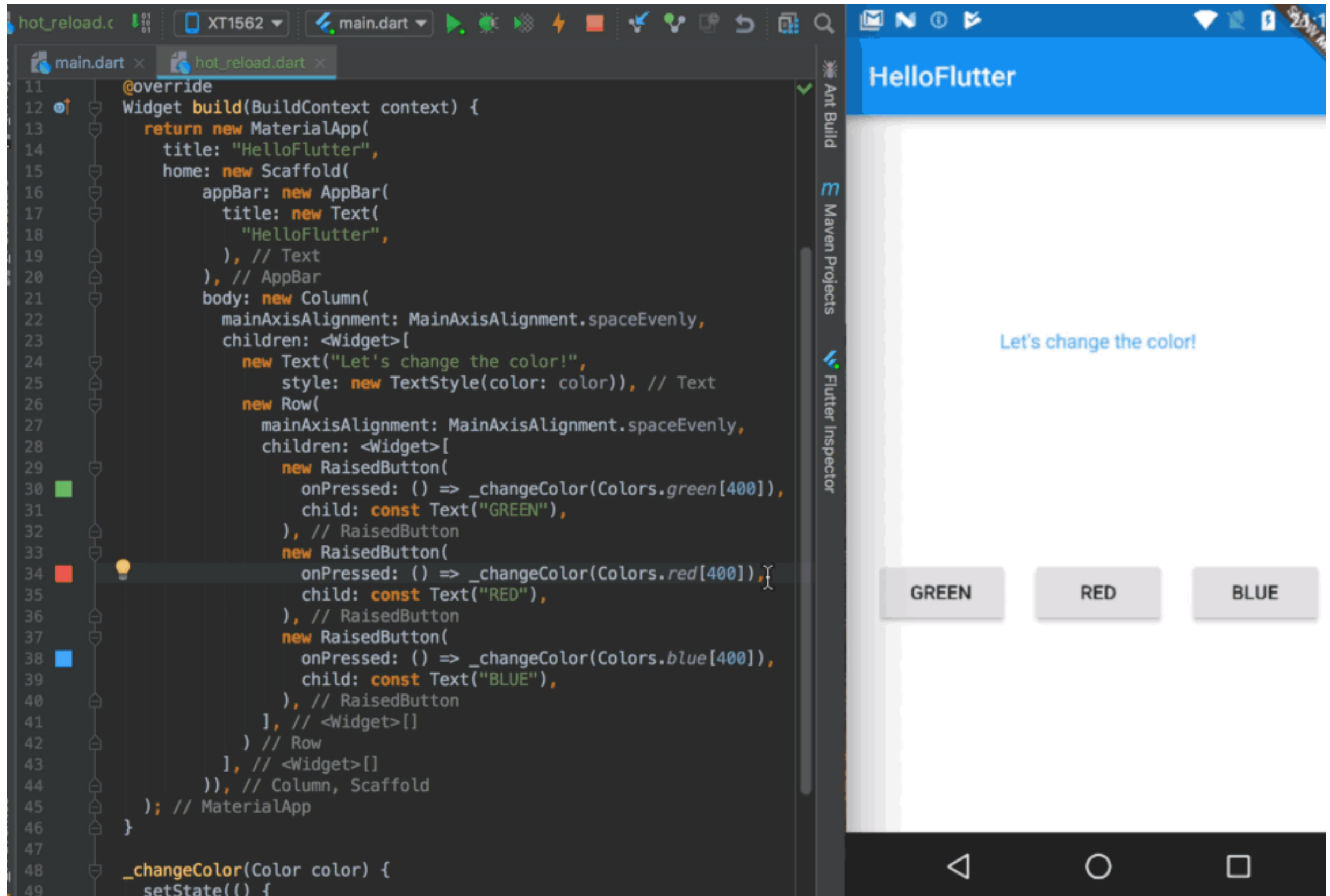
Natural look and feel

Critical platform differences (scrolling, navigation, fonts)

Fast Development

Flutter's hot reload feature helps you quickly and easily experiment, build UIs, add features, and fix bugs.





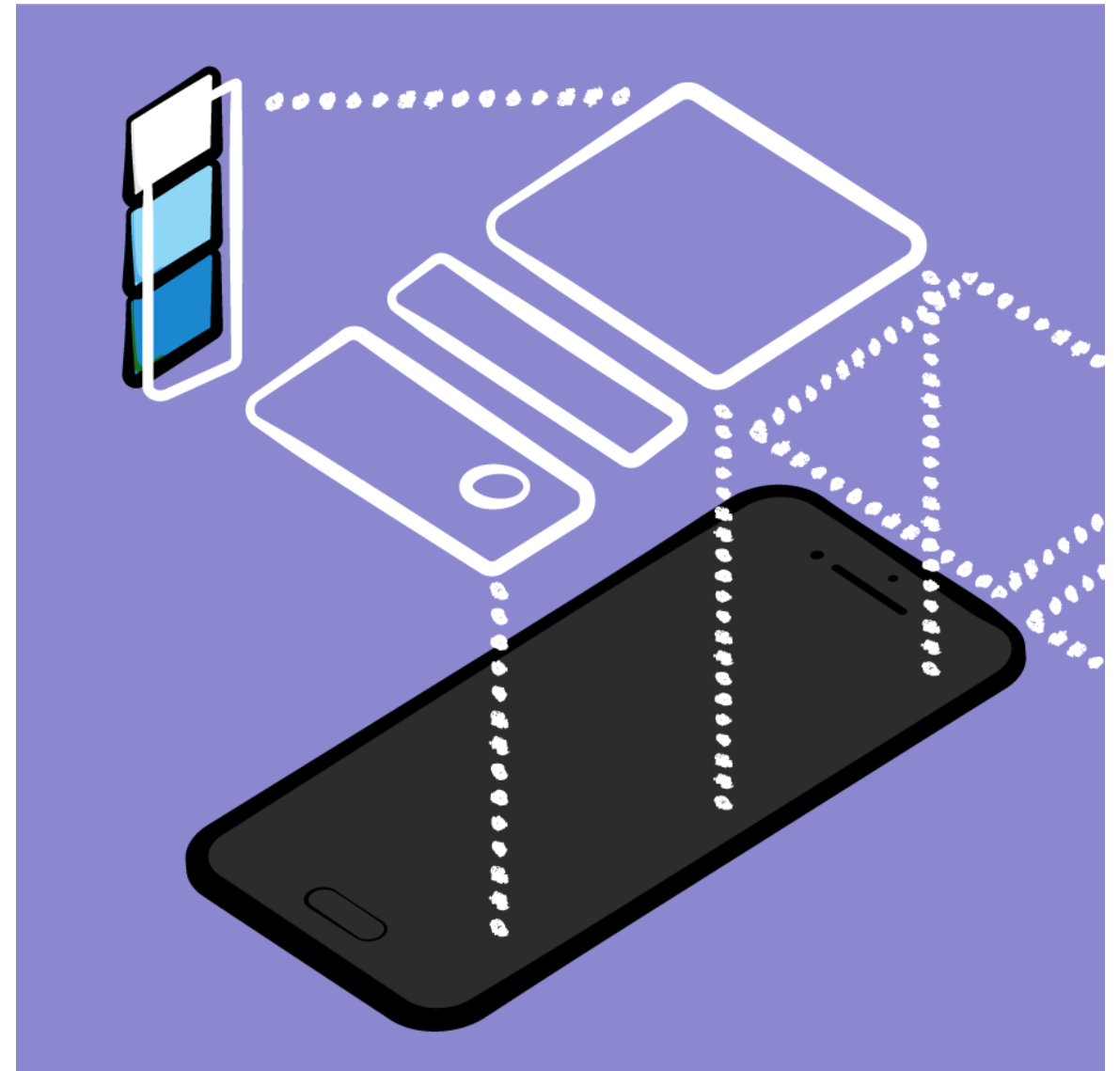
The image shows a screenshot of an IDE (likely Android Studio) with a Flutter project. The left pane displays the `main.dart` file, which is being edited. The code defines a `Widget build(BuildContext context)` method that returns a `MaterialApp` widget. The `MaterialApp` has a title of "HelloFlutter" and a `Scaffold` widget. The `Scaffold` has an `AppBar` with the title "HelloFlutter" and a `body` of a `Column` widget. The `Column` has a `mainAxisAlignment` of `MainAxisAlignment.spaceEvenly` and a list of children. The first child is a `Text` widget with the text "Let's change the color!". The second child is a `Row` widget with a `mainAxisAlignment` of `MainAxisAlignment.spaceEvenly` and a list of three `RaisedButton` widgets. The first `RaisedButton` has an `onPressed` callback that calls `_changeColor(Colors.green[400])` and a `child` of `const Text("GREEN")`. The second `RaisedButton` has an `onPressed` callback that calls `_changeColor(Colors.red[400])` and a `child` of `const Text("RED")`. The third `RaisedButton` has an `onPressed` callback that calls `_changeColor(Colors.blue[400])` and a `child` of `const Text("BLUE")`. The `_changeColor` method is defined at the bottom of the file, taking a `Color` parameter and calling `setState()`.

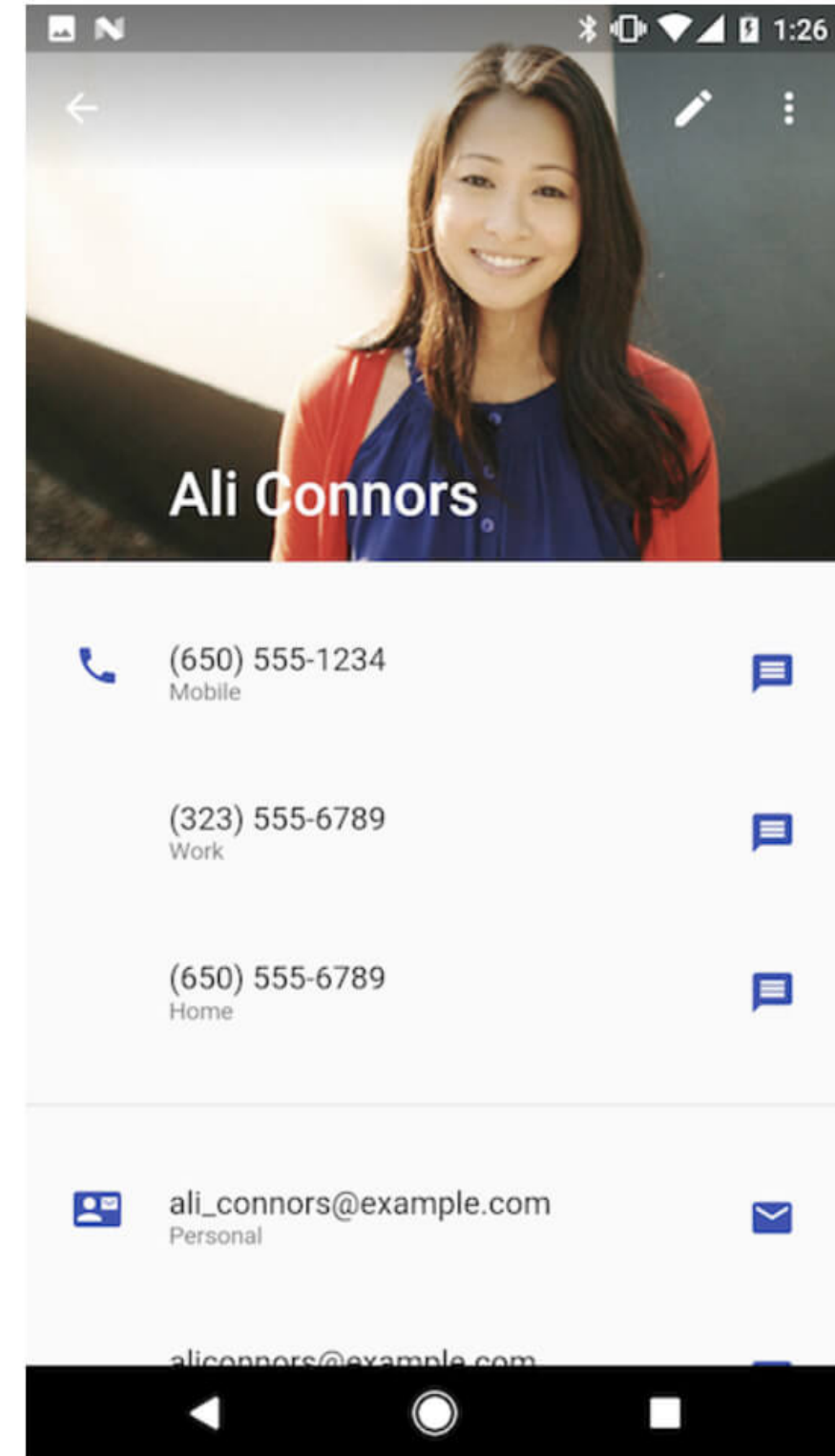
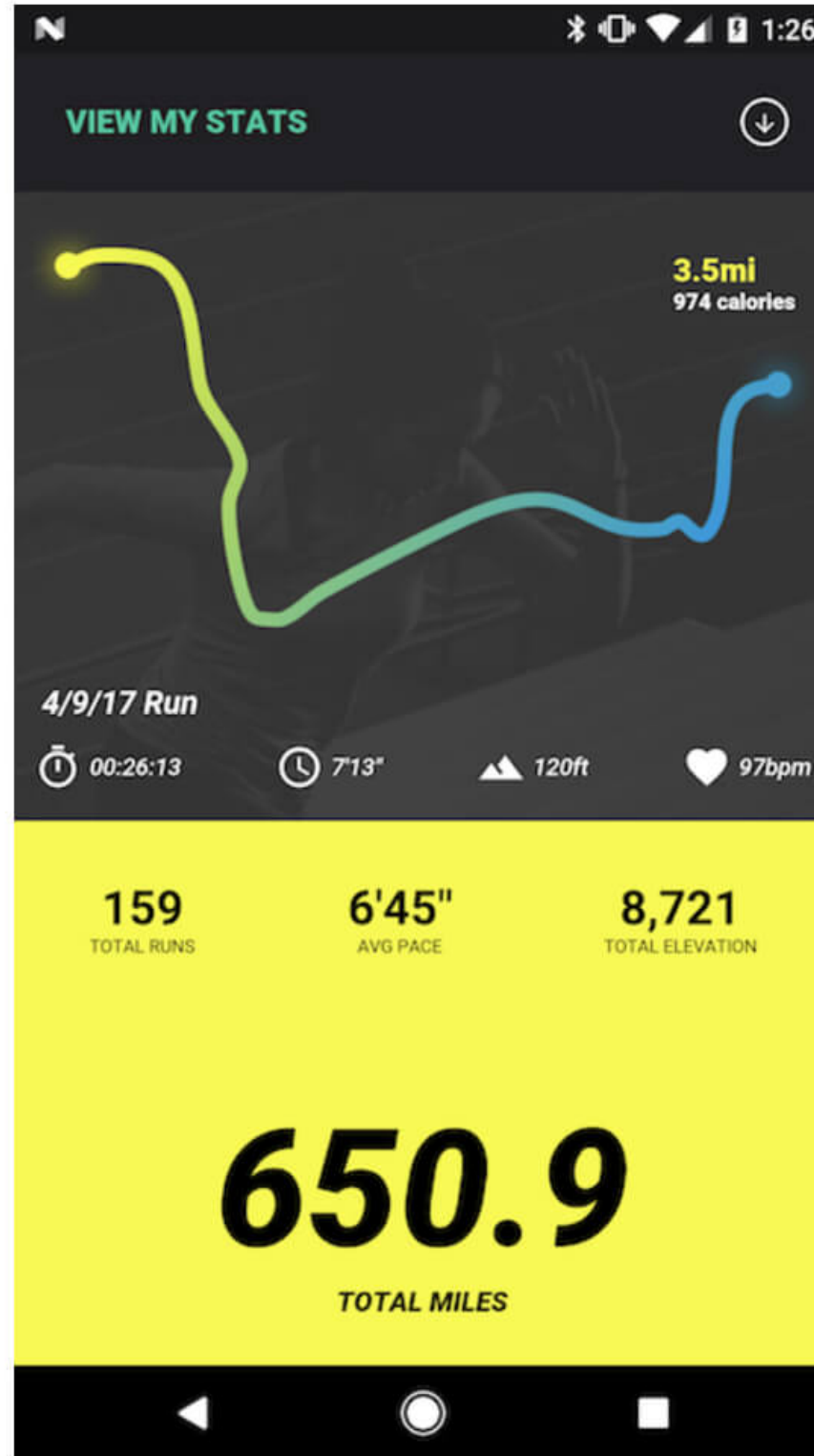
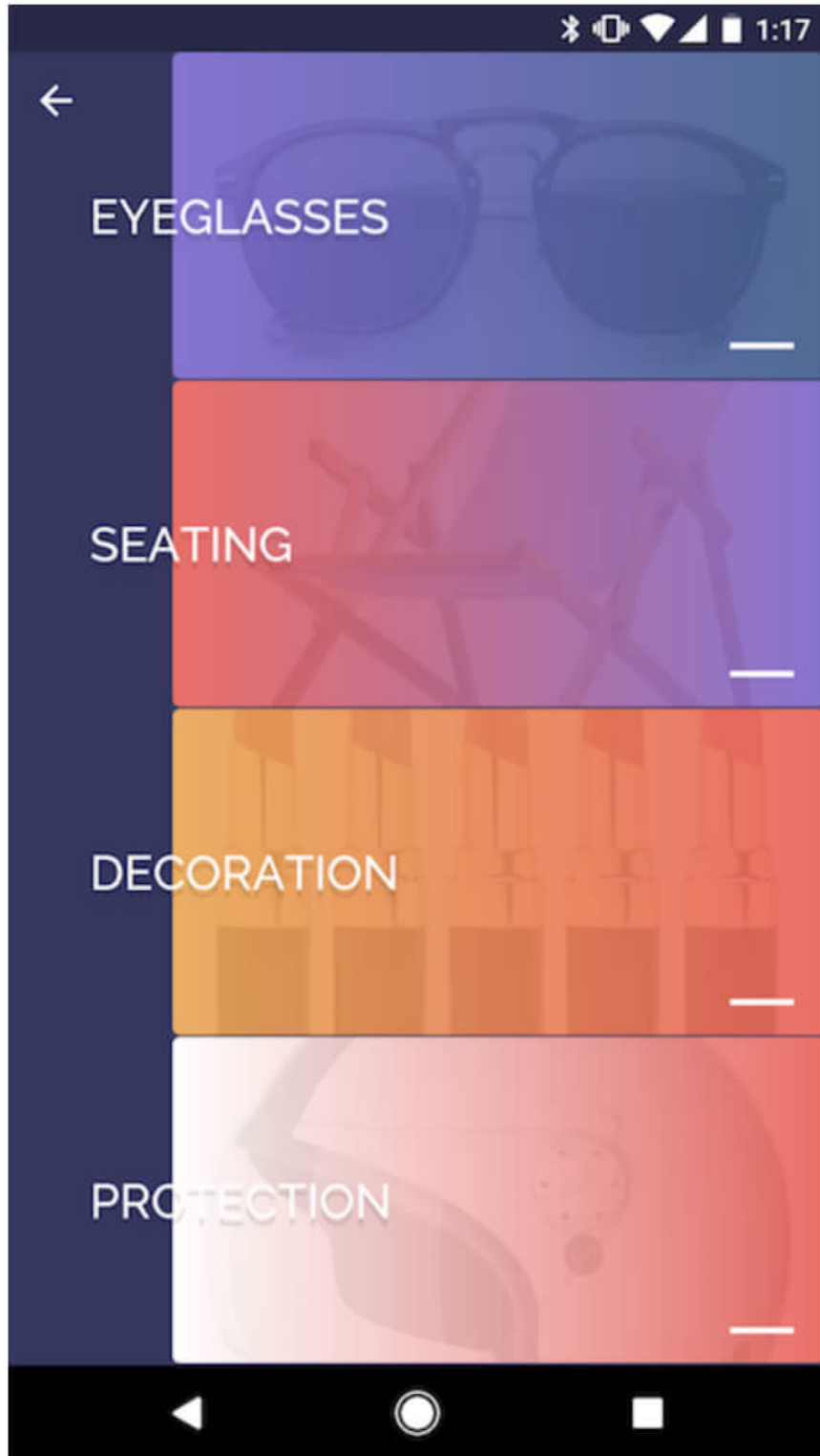
```
11 @override
12 Widget build(BuildContext context) {
13   return new MaterialApp(
14     title: "HelloFlutter",
15     home: new Scaffold(
16       appBar: new AppBar(
17         title: new Text(
18           "HelloFlutter",
19         ), // Text
20       ), // AppBar
21       body: new Column(
22         mainAxisAlignment: MainAxisAlignment.spaceEvenly,
23         children: <Widget>[
24           new Text("Let's change the color!",
25             style: new TextStyle(color: color)), // Text
26           new Row(
27             mainAxisAlignment: MainAxisAlignment.spaceEvenly,
28             children: <Widget>[
29               new RaisedButton(
30                 onPressed: () => _changeColor(Colors.green[400]),
31                 child: const Text("GREEN"),
32               ), // RaisedButton
33               new RaisedButton(
34                 onPressed: () => _changeColor(Colors.red[400]),
35                 child: const Text("RED"),
36               ), // RaisedButton
37               new RaisedButton(
38                 onPressed: () => _changeColor(Colors.blue[400]),
39                 child: const Text("BLUE"),
40               ), // RaisedButton
41             ], // <Widget>[]
42           ) // Row
43         ], // <Widget>[]
44       ), // Column, Scaffold
45     ); // MaterialApp
46   }
47
48   _changeColor(Color color) {
49     setState(() {
```

The right pane shows the preview of the app. The app has a blue header bar with the text "HelloFlutter". Below the header bar, the text "Let's change the color!" is displayed. At the bottom of the screen, there are three buttons labeled "GREEN", "RED", and "BLUE".

Expressive, beautiful UIs

Delight your users with Flutter's built-in beautiful Material Design and Cupertino (iOS-flavor) widgets, rich motion APIs, smooth natural scrolling, and platform awareness.





Other Features

Great developer tools

The developer has full control over the widgets and layout

Uses Dart

Extensive documentation

2D Rendering Engine

Still in development (beta)

Doesn't support 32 bit devices (iPhone 5, 5C or earlier)

A Modern React-Style framework

Widget

Widgets are the elements that affect and control the view and interface to an app.

Widgets are one of the most important parts of a mobil app.

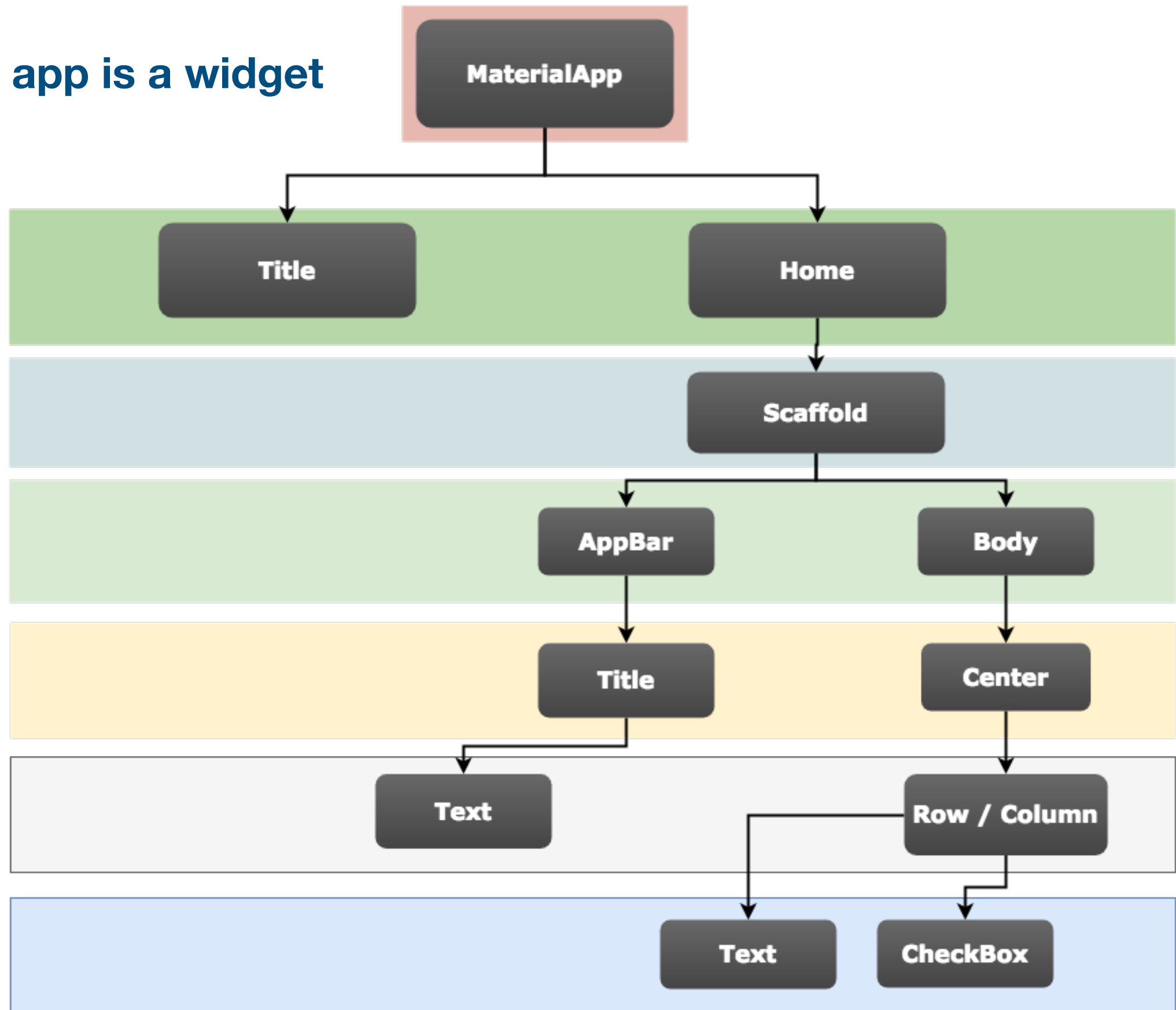
Everything is a Widget!!!!

Themes, Paddings, Navigation, Application...

Widgets and the renderer are inside the app

Fast, customizable and extendable

***In fact, Flutter app is a widget**



Who is using Flutter?

USED BY GOOGLE, COMPANIES, AND DEVELOPERS AROUND THE WORLD

Google

 codemate



tengio

 GeekyAnts



APPTREE

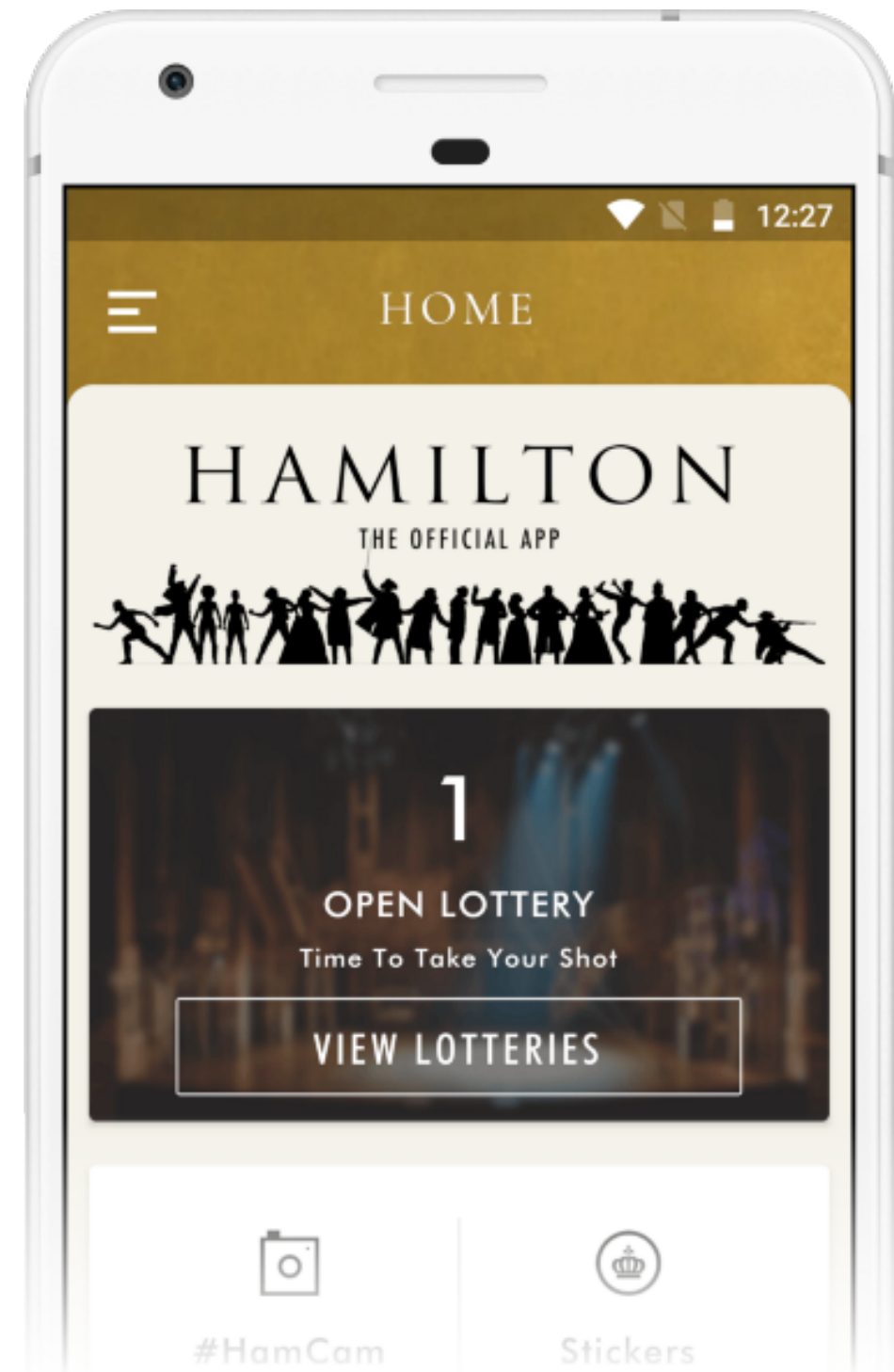
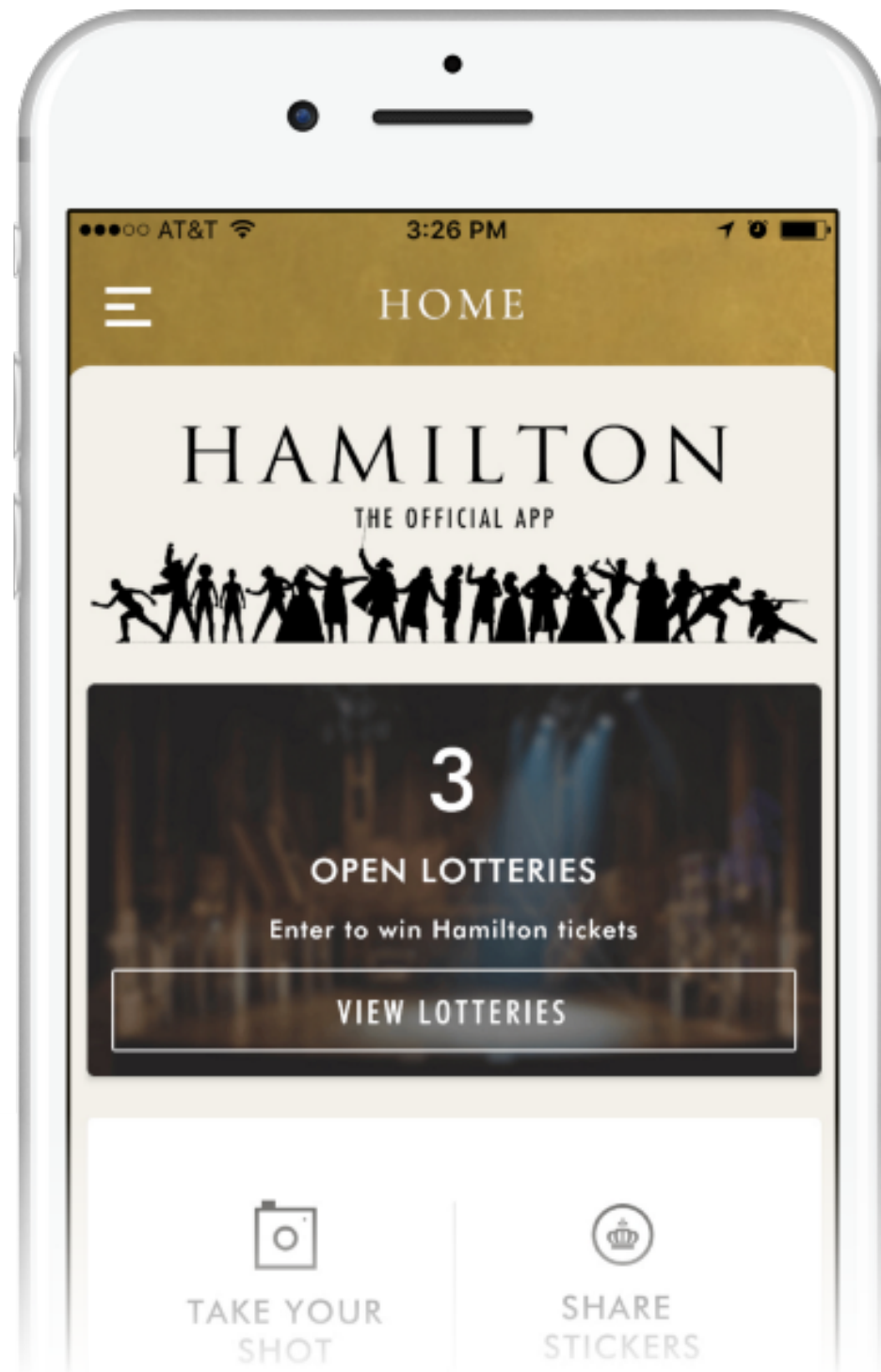
POSSE

 AdWords



Hookle

HAMILTON



Works with popular tools and platforms

VS Code

Xcode

Firebase

Android Studio

Android APIs

iOS APIs

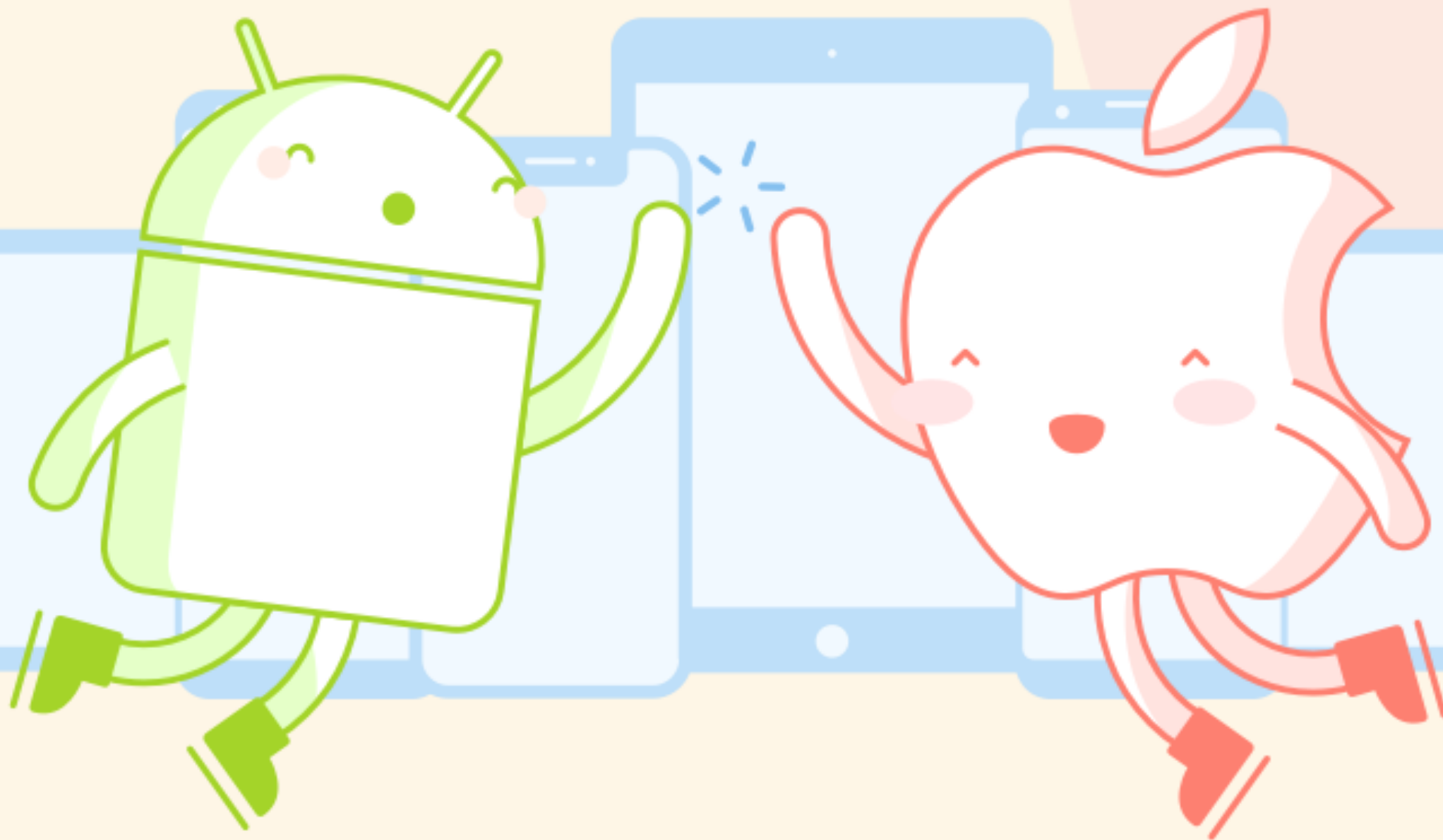
**Material
Design**

Redux





Flutter



Thanks for listening...