

Flutter Study Jam - GDG La Paz

Session 1





Hello Flutter



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What is a Study JAM?

Study Jams are community-run study groups for students on Google Developers content, on various product topics.

The objective of Study Jams is to raise the technical proficiency of our global community members through the highest possible course completion rate.





Flutter STUDY JAM

WHAT IS IT?

Series of meetups where you will guide a group of learners on how to use Flutter to develop high-quality, interactive mobile applications for iOS and Android devices.

HOW LONG DOES IT TAKE?

3 in-person sessions to cover 7 hours long Udacity course.

WHAT IS THE END RESULT?

Create a Flutter app while completing the course, get a Google-offered Study Jam completion certificate and a profile badge



Why Flutter?



Why Flutter?



Native App Development

- ✓ **High-quality apps**
Platform and system integrations
- ✓ **High-performance UIs**
Native code, GPU accelerated
- ✗ **Must fund two apps**
Two teams, codebases, & investments
- ✗ **Inconsistent brand, features**
Different across devices & OEMs

Hybrid App Development

- ✓ **Fast development**
Quick iterations, hot reload
- ✓ **Portability, reach**
Single codebase
- ✗ **Poor Performance**
Slow, jerky, unpredictable
- ✗ **Non-Native Look/Feel**
Users can tell the difference



Why Flutter?

Flutter combines
native performance and quality
with **high-velocity development** and
multi-platform reach.



Why Flutter?



High-Velocity Development



Expressive and
Flexible Toolkit



Native iOS and Android
App



Why Dart?

Developers at Google and elsewhere use Dart to create high-quality, mission-critical apps for iOS, Android, and the web. With features aimed at client-side development, Dart is a great fit for both mobile and web apps.

Dart is free and open source, developed on GitHub.

- Productive
- Fast
- Portable
- Approachable (C++, C#, Java)
- Reactive



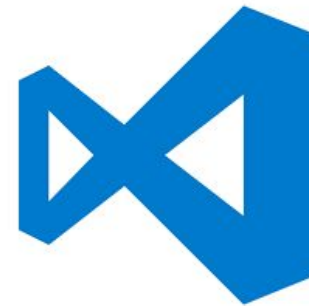
Set Up Your Environment



Android Studio

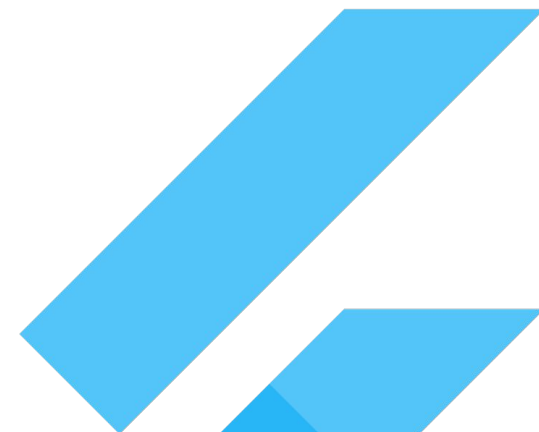


Xcode

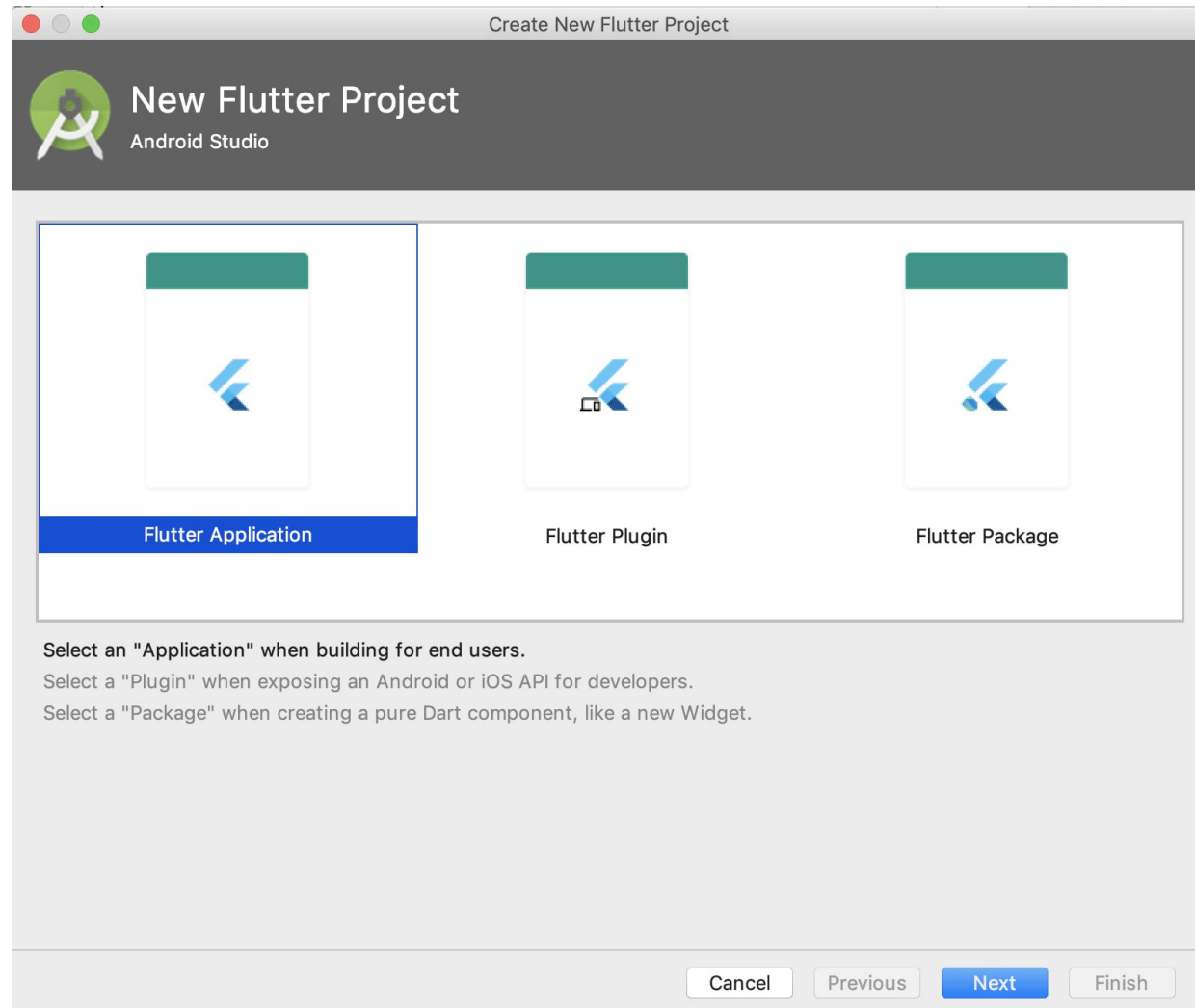


VS Code

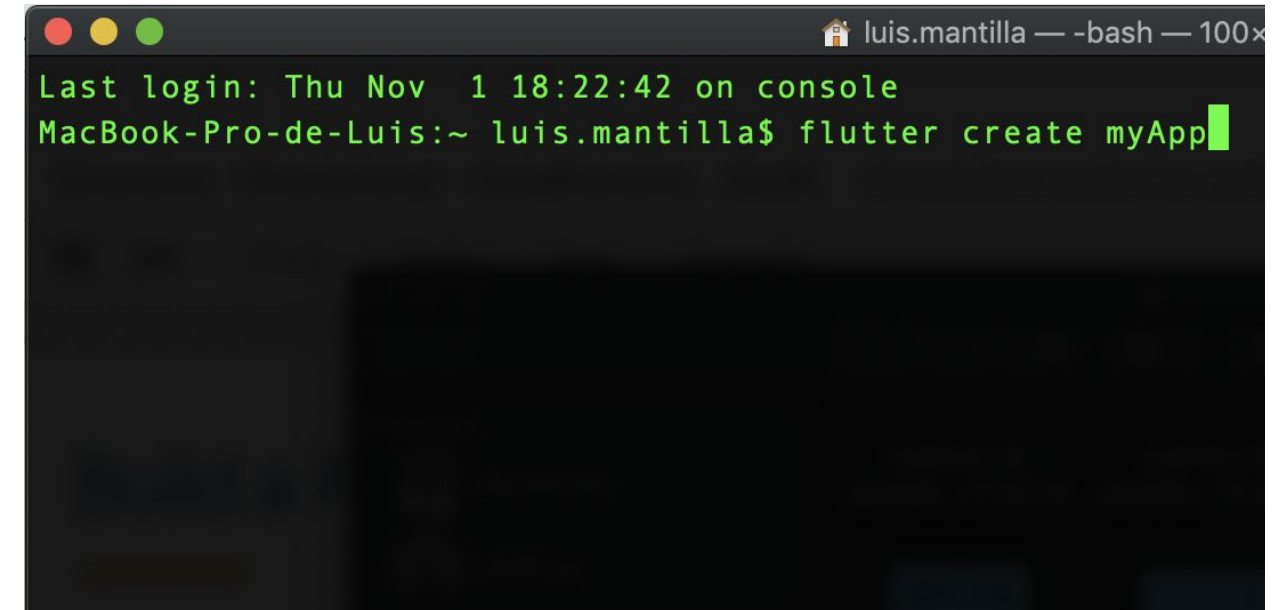
<https://flutter.io/setup>



Build a Flutter App



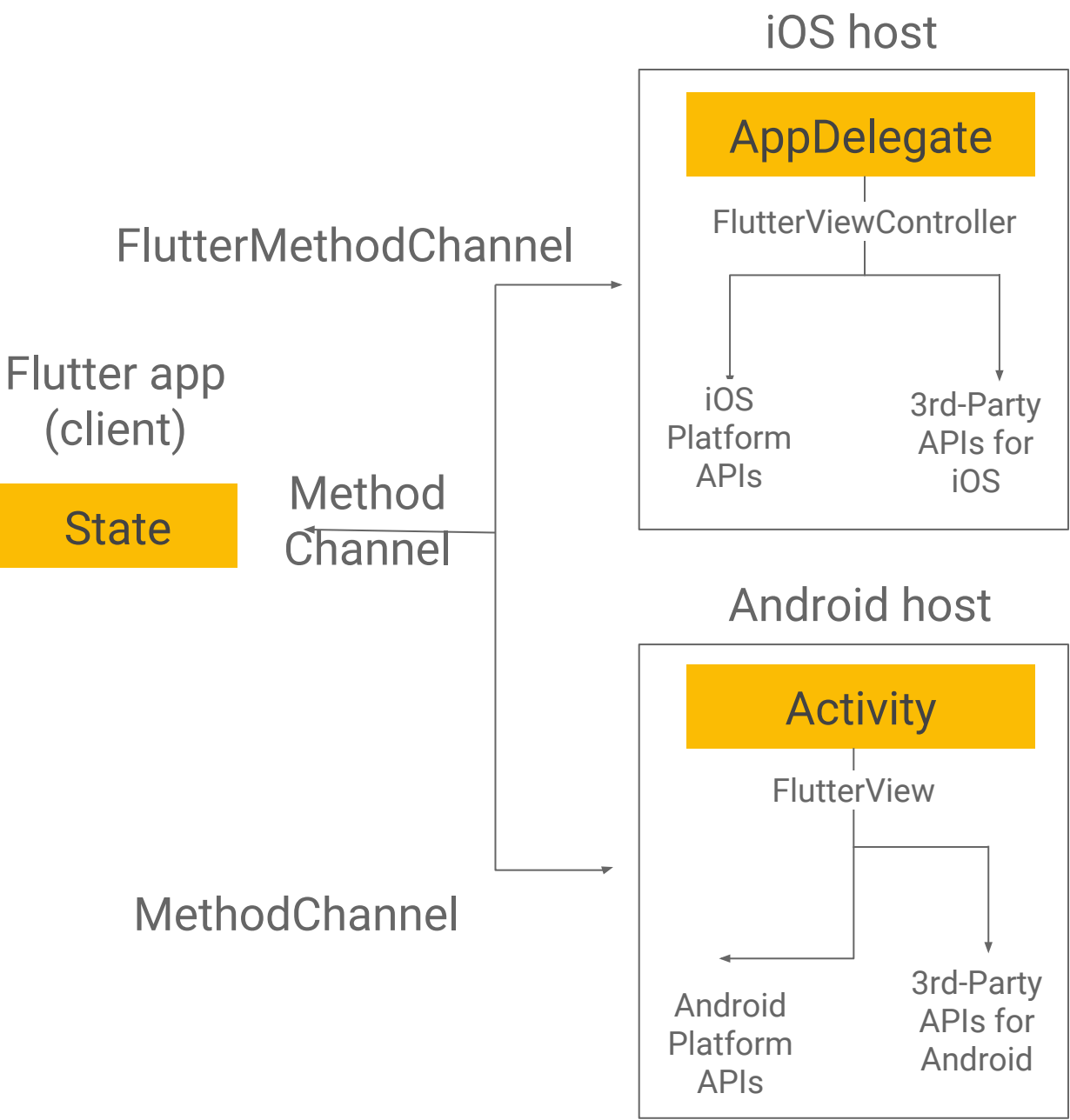
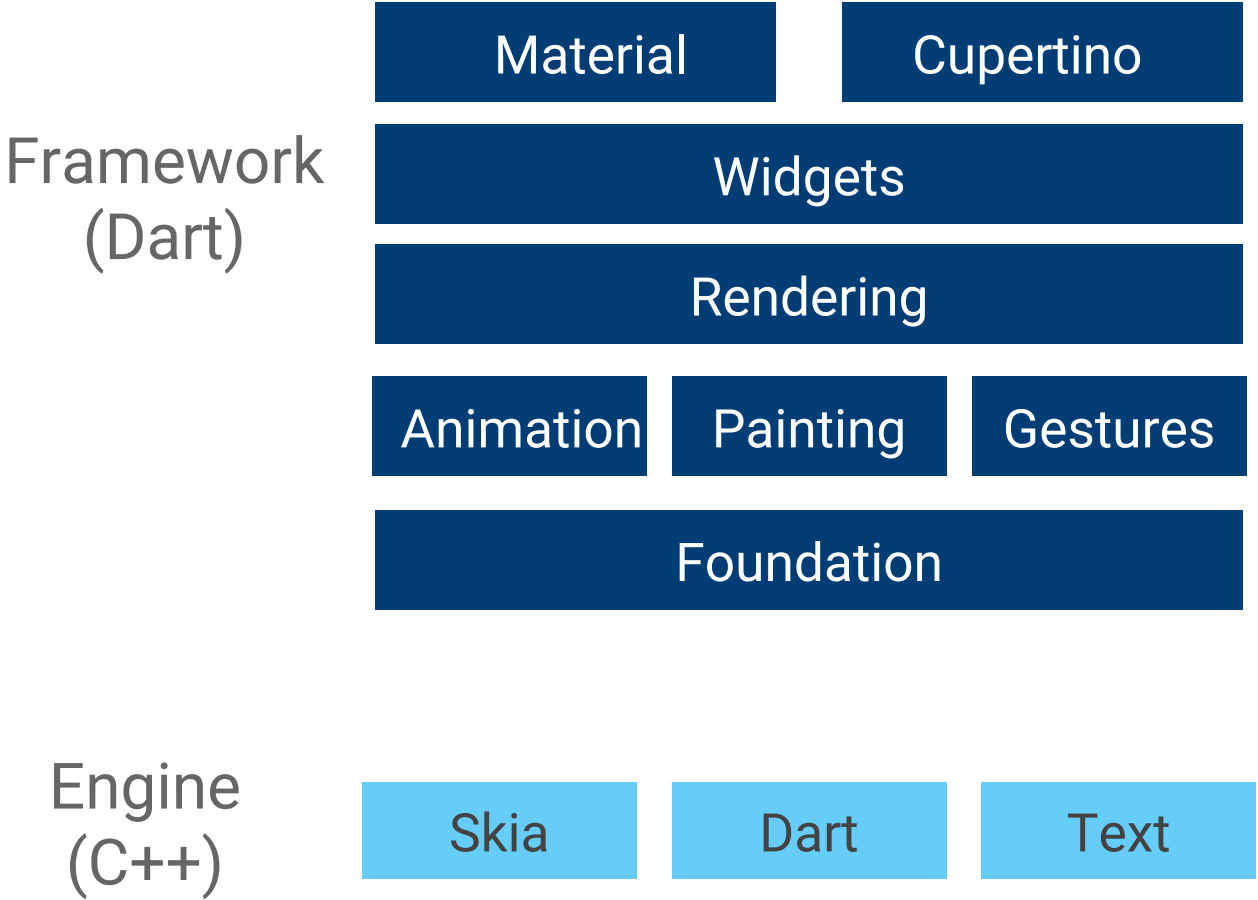
Android Studio



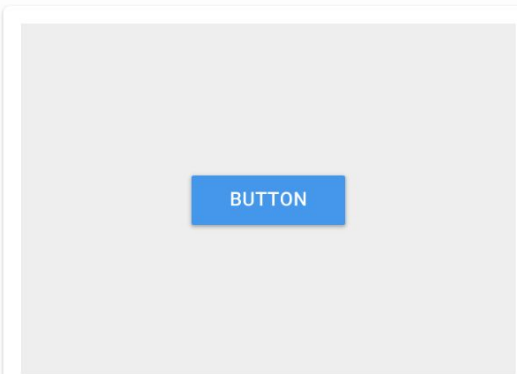
Consola



Flutter's Reactive Framework



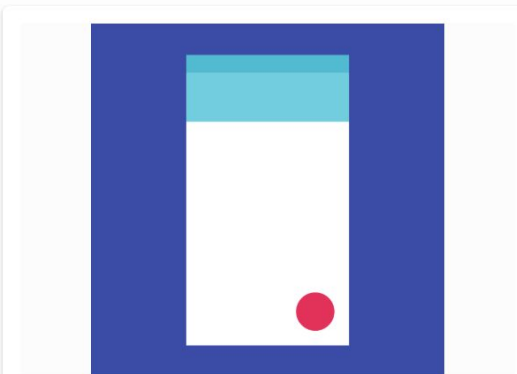
The Wonderful Things about Widgets



RaisedButton

A Material Design raised button. A raised button consists of a rectangular piece of material that hovers over the interface.

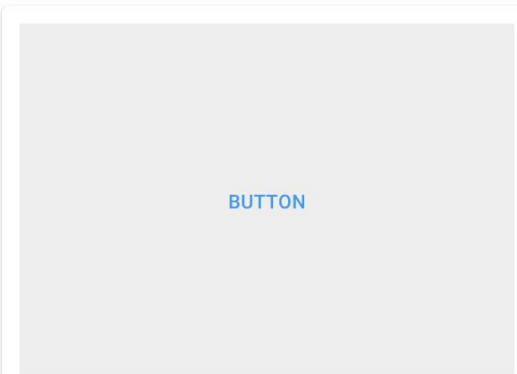
[Documentation](#)



FloatingActionButton

promote a primary action in the application. Floating action buttons are... most commonly used in the Scaffold.floatingActionButton field.

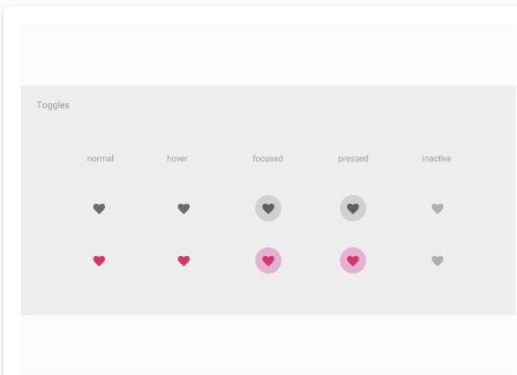
[Documentation](#)



FlatButton

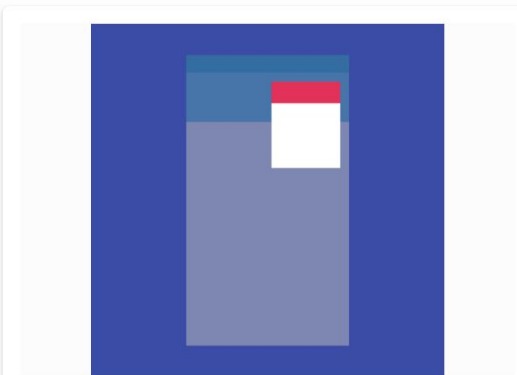
A flat button is a section printed on a Material Components widget that reacts to touches by filling with color.

[Documentation](#)



IconButton

An icon button is a picture printed on a Material widget that reacts to touches by filling with color (ink).



PopupMenuButton

Displays a menu when pressed and calls onSelected when the menu is dismissed because an item was selected.



ButtonBar

A horizontal arrangement of buttons.

[Documentation](#)



Build Smart House App



www.uplabs.com

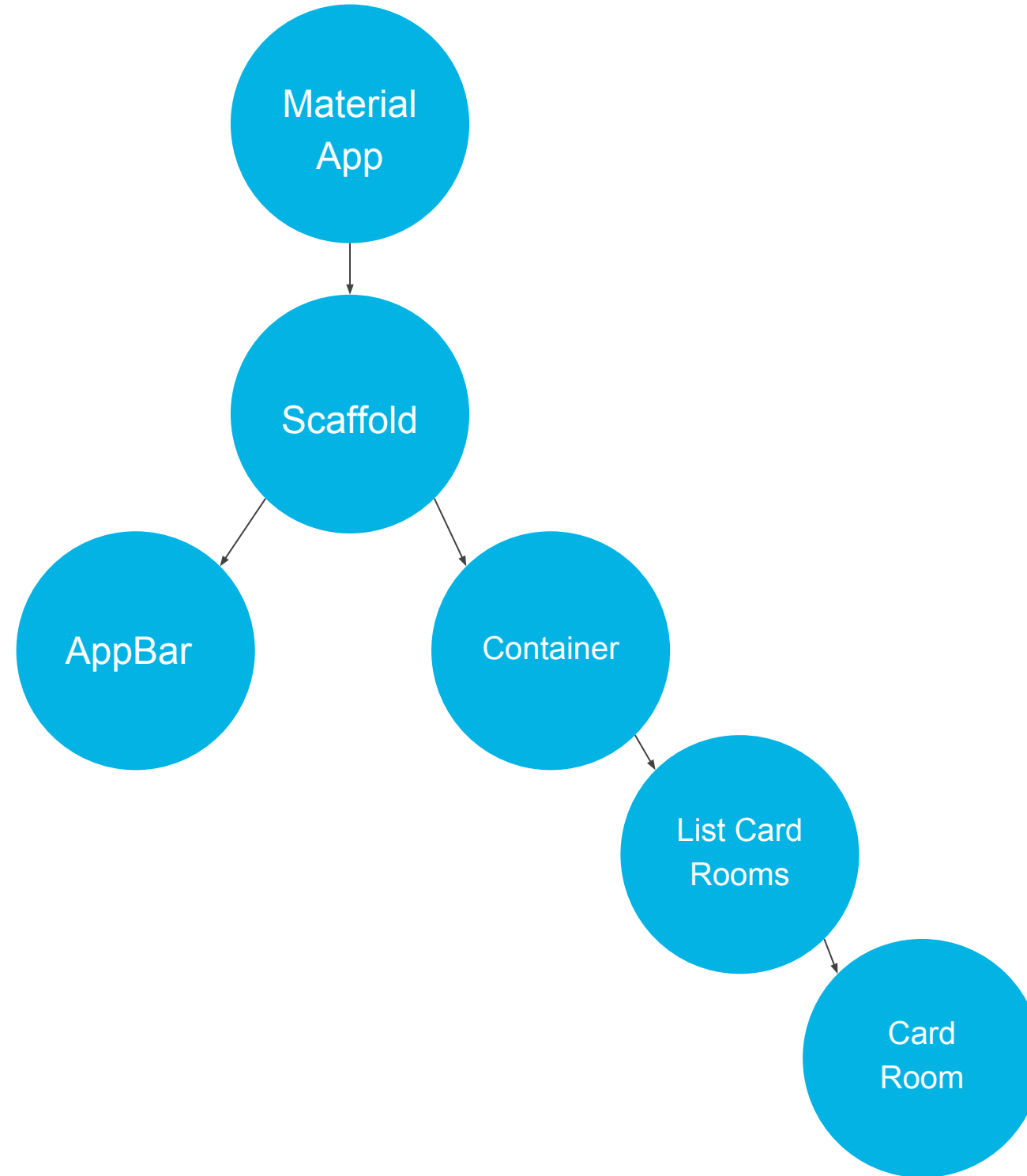


www.dribbble.com

<https://www.uplabs.com/posts/smart-house-concept>



Build Smart House App



What is Next?



Curso Oficial de Udacity:

<https://www.udacity.com/course/build-native-mobile-apps-with-flutter--ud905>

Codelabs Oficiales de Google Developers:

<https://codelabs.developers.google.com/?cat=Flutter>



Thanks ;)

