



# DENVER

STARTUP WEEK

SEP 14-18, 2020

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[#DENStartupWeek](https://twitter.com/DENStartupWeek)



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# FLUTTER: ONE CODEBASE, THREE APPS

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Rona Kilmer  
09/17/2020





## **RONA KILMER**

Co-Founder & CPO, Reddiyo  
Co-Organizer, Flutter Denver Meetup



@rkunboxed @reddiyo

# AGENDA

- Why Reddiyo Chose Flutter
- Intro to Flutter
- Why Dart
- Sample App Demo
- Tools and Resources
- Q&A (drop in chat w/prefix, “#Q”)



Reddiyo

Your Current Plan Overview

WORKOUTS  
56%  
COMPLETED

DAYS  
9  
TO GO

11 DAYS UNTIL: DENVER CENTURY

Your Weekly Activity Totals

< 7/27 - 8/02 >

cycling

44.7

hiking

5.8

running

5.6

0

miles

45

Hours

Distance

Workouts

Elevation

CURRENT THRESHOLDS

FTP: 150 LT: 163

Workout Schedule

< Jul 27 - Aug 2, 2020 >

MO  
7/27

Running Activity

✔

Workout for activity on date: 2020-07-27

27 mins

TU  
7/28

Just the Pavement Left

✔

This is a power builder workout. As we see gains in our thresholds it's important to push those boundaries.

2 hrs 28 mins

TH  
7/30

Running Activity

✔

Workout for activity on date: 2020-07-30

40 mins

TH  
7/30

Nothing Comes for Free

This is a recovery ride, low in intensity but good for maintenance. Ideally find a ride that you enjoy outside and enjoy the day!

1 hr 51 mins

FR  
7/31

Blue Light

✔

This workout is a hard push to build up leg strength and your VO2. Intensity increases steadily and then eases back down.

1 hr 28 mins

<

Workout Results

Mon, Jun 22 @ 5:06 PM

Cap Hill

DURATION:  
2hrs 1m

DISTANCE:  
33.74 mi

ELEVATION:  
1276 ft

CALORIES:  
1430

WORKLOAD STRESS

Planned: 99 Actual: 138

Power (watts/time)

450

360

270

180

90

0

00:00

1:00:00

2:00:00

Avg: ...

⚡

❤

▶

⚠

☰

✎

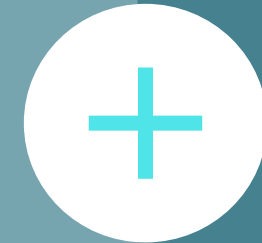




# WHY REDDIYO BET ON FLUTTER

## Budget

Reddiyo is a bootstrapped startup. Hiring both Swift and Kotlin developers wasn't in the budget.



## Learning Curve

We had plenty of web application development experience but not much in native mobile app development.



## Timeline

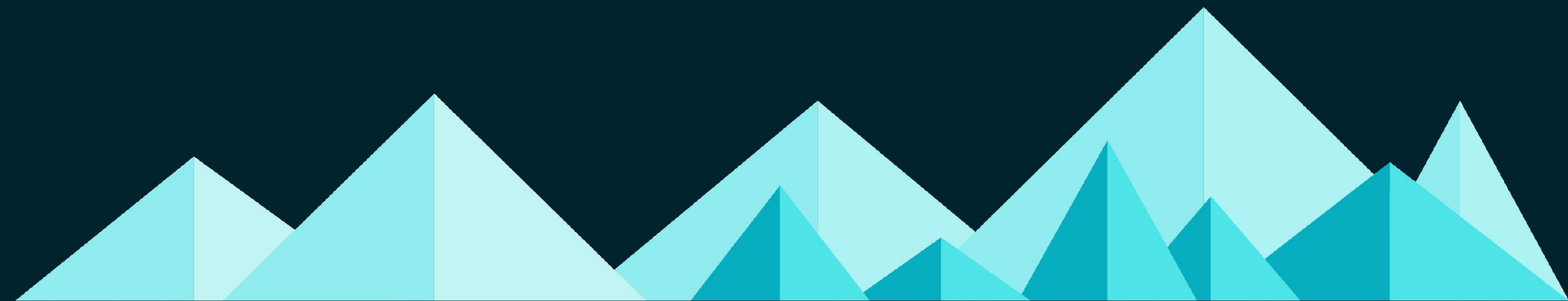
The mobile app was critical to getting Reddiyo off the ground. We needed it in the app stores ASAP.

## Flutter for the Win

One language for iOS, Android = small team  
Dart felt familiar = short learning curve  
Huge library of widgets, hot reload, and excellent documentation = fast development



# WHAT IS FLUTTER?



**FLUTTER IS...**

**A UI TOOLKIT**



**FLUTTER IS...**

**OPEN SOURCE**

**FLUTTER...**

**COMPILES TO NATIVE CODE**

**FLUTTER IS...**

**DECLARATIVE**



**FLUTTER IS...**

**NOT OPINIONATED**

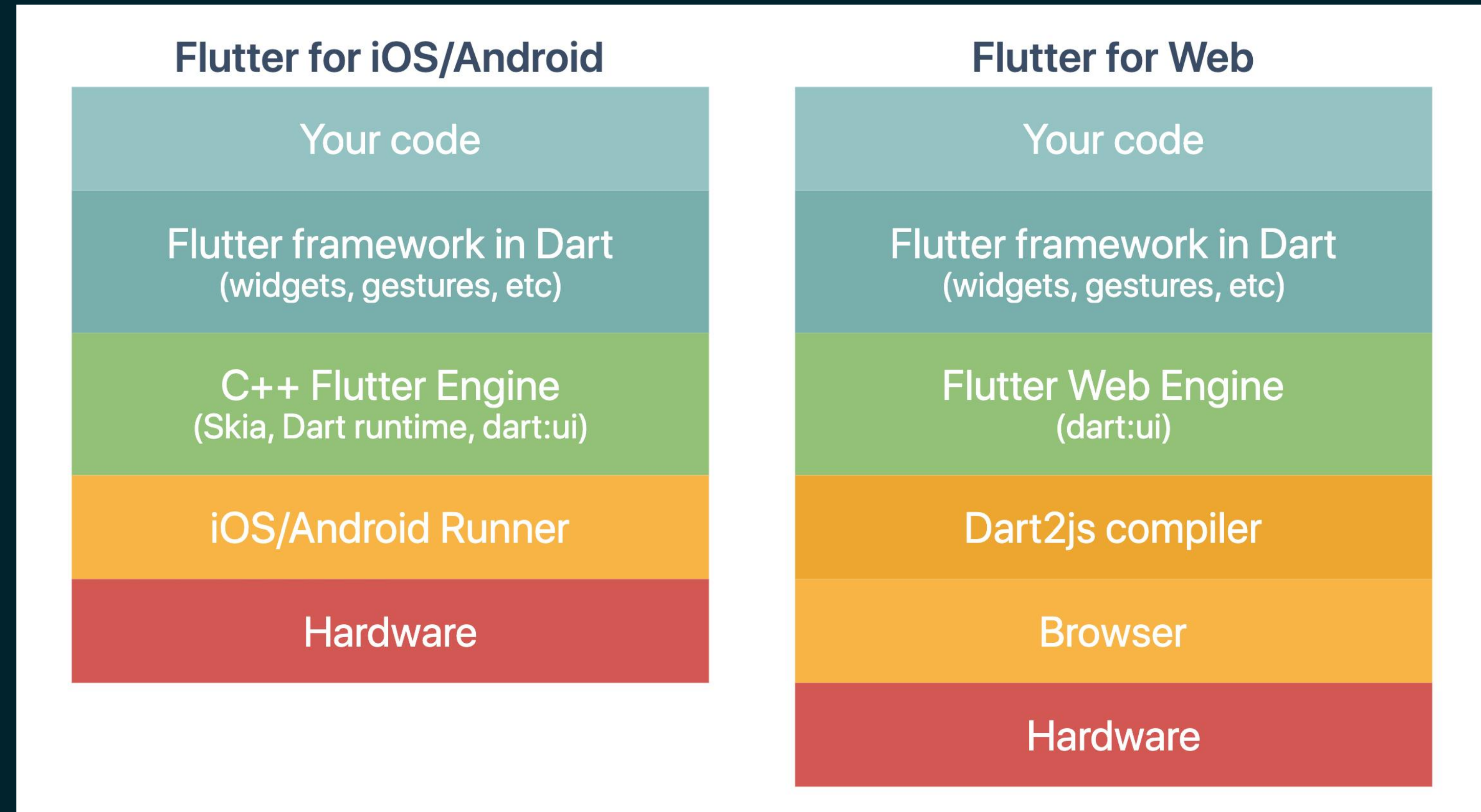
## SUPPORTED PLATFORMS



Linux



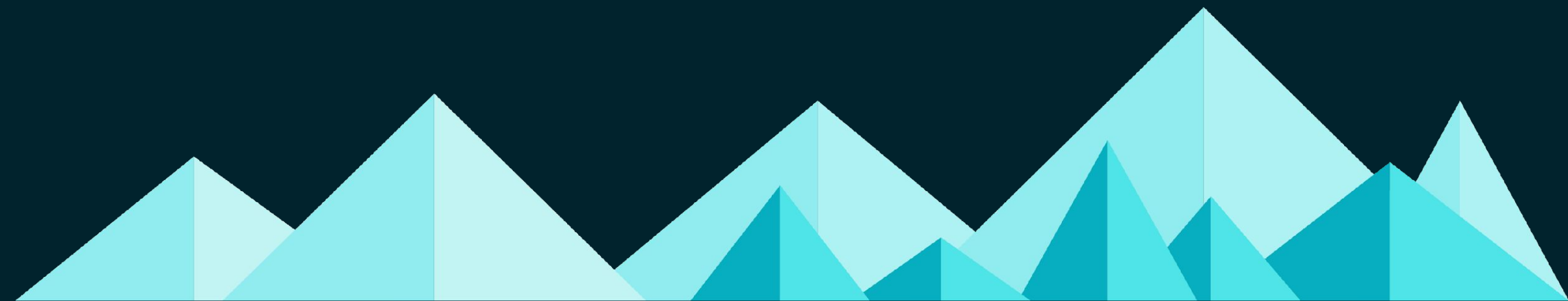
# HIGH LEVEL ARCHITECTURE







# WHY DART?



**DART IS...**

**FAMILIAR**

**DART IS...**

**OBJECT-ORIENTED**



**DART IS...**

**STATICALLY TYPED**

**DART IS...**

**PRODUCTIVE**

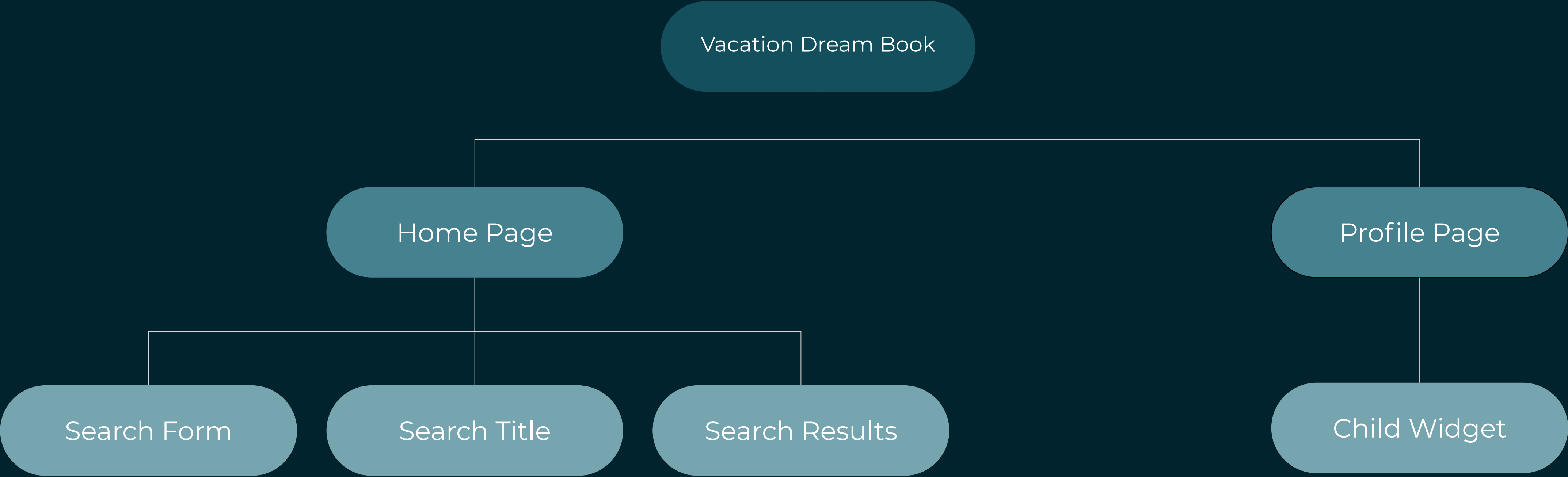
# EVERYTHING IS A WIDGET

What the heck is a widget?

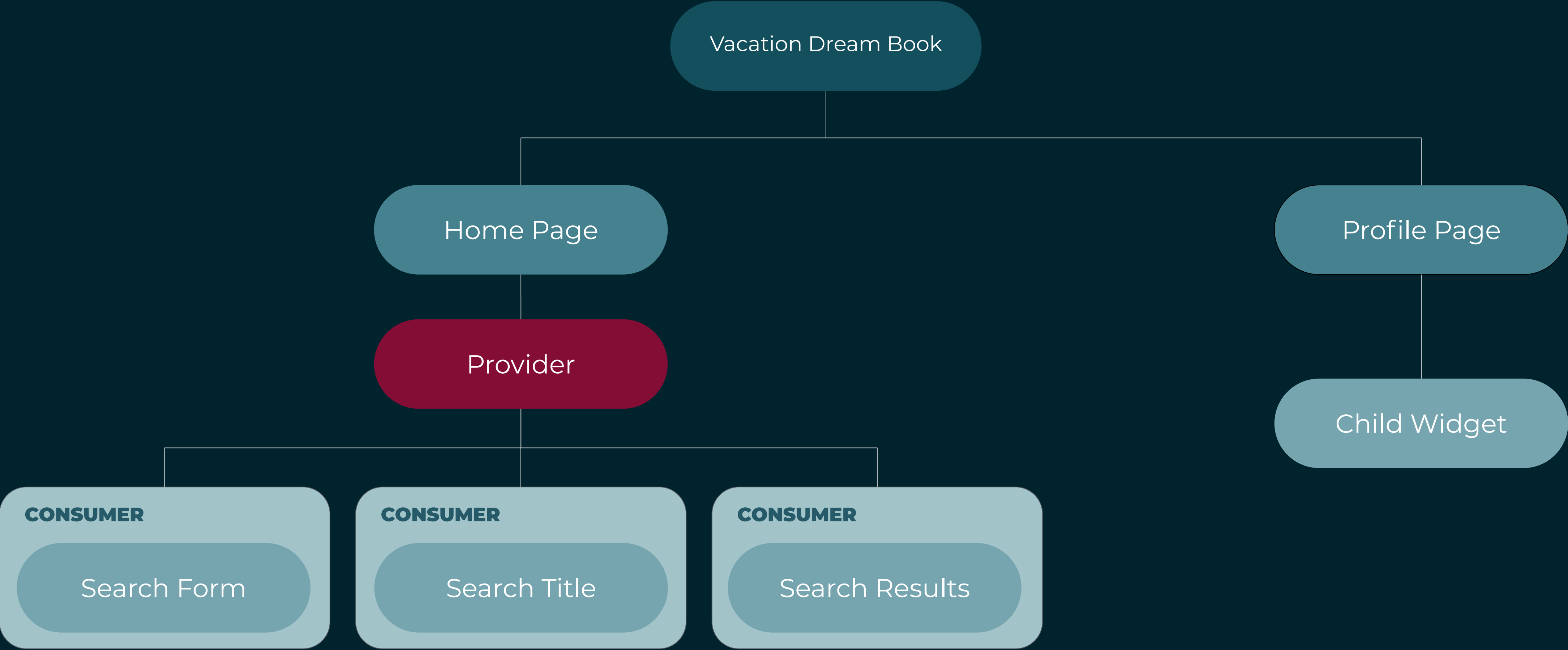


# DEMO - VACATION DREAM BOOK

# STATE MANAGEMENT



# STATE MANAGEMENT



# DEMO - PROVIDER



# DEMO - MORE APP ESSENTIALS

# TESTING

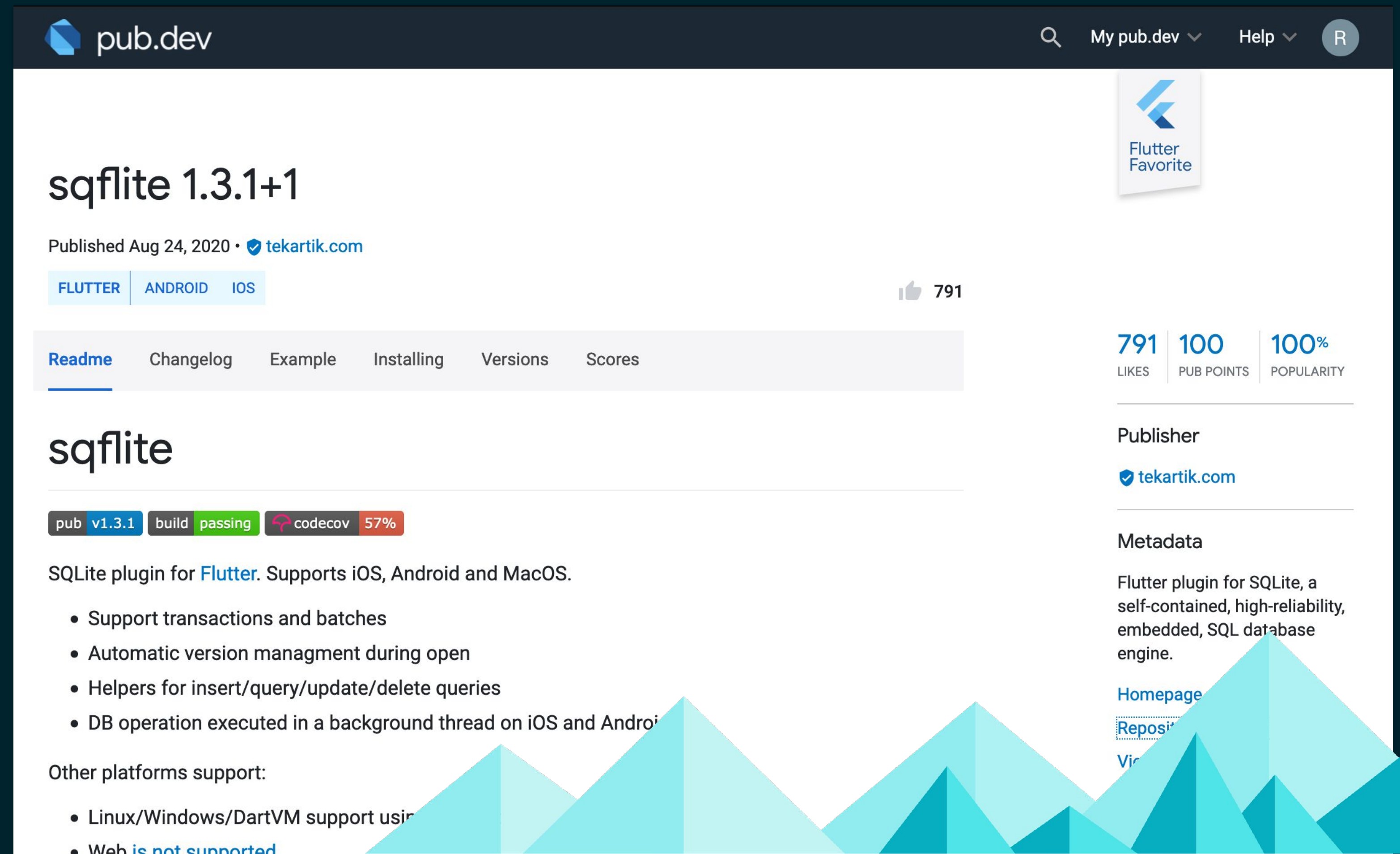
- Unit
- Widget (component test)
- Driver (integration)

## USEFUL TOOLS

- DevTools
- DartPad.dev
- CodePen.io
- Rive
- Adobe XD

# ROBUST PACKAGE ECOSYSTEM - PUB.DEV

- Firebase
- AWS (Amplify in dev preview)
- MLKit
- JSON Serializable
- Sentry
- Sqflite
- Google Fonts



The screenshot shows the pub.dev package page for 'sqflite 1.3.1+1'. The page header includes the pub.dev logo, a search icon, and navigation links for 'My pub.dev', 'Help', and a user profile 'R'. A 'Flutter Favorite' badge is visible in the top right. The package name 'sqflite 1.3.1+1' is prominently displayed, along with the publication date 'Aug 24, 2020' and the publisher 'tekartik.com'. Below this, there are tabs for 'FLUTTER', 'ANDROID', and 'IOS', with 'FLUTTER' being the active tab. A '791' likes count is shown. A navigation bar contains links for 'Readme', 'Changelog', 'Example', 'Installing', 'Versions', and 'Scores'. The 'Readme' section is expanded, showing the package name 'sqflite' and a description: 'SQLite plugin for Flutter. Supports iOS, Android and MacOS.' Below the description is a list of features: 'Support transactions and batches', 'Automatic version management during open', 'Helpers for insert/query/update/delete queries', and 'DB operation executed in a background thread on iOS and Android'. There are also status badges for 'pub v1.3.1', 'build passing', 'codecov 57%', and 'popularity 100%'. On the right side, there are statistics: '791 LIKES', '100 PUB POINTS', and '100% POPULARITY'. Below these are sections for 'Publisher' (tekartik.com) and 'Metadata' (Flutter plugin for SQLite, a self-contained, high-reliability, embedded, SQL database engine). At the bottom, there are links for 'Homepage', 'Repository', and 'Versions'.

pub.dev

sqflite 1.3.1+1

Published Aug 24, 2020 • [tekartik.com](#)

FLUTTER ANDROID IOS

791

Readme Changelog Example Installing Versions Scores

sqflite

pub v1.3.1 build passing codecov 57%

SQLite plugin for [Flutter](#). Supports iOS, Android and MacOS.

- Support transactions and batches
- Automatic version management during open
- Helpers for insert/query/update/delete queries
- DB operation executed in a background thread on iOS and Android

Other platforms support:

- Linux/Windows/DartVM support using [Flutter](#)
- Web is not supported

Flutter Favorite

791 LIKES 100 PUB POINTS 100% POPULARITY

Publisher

[tekartik.com](#)

Metadata

Flutter plugin for SQLite, a self-contained, high-reliability, embedded, SQL database engine.

[Homepage](#)

[Repository](#)

[Versions](#)

## HELPFUL RESOURCES

- <https://flutter.dev>
- <https://gallery.flutter.dev>
- <https://flutter.dev/community>
- <https://www.meetup.com/Flutter-Denver/>
- DEMO: <https://bit.ly/35JdSZ6>



# FLUTTER ISN'T JUST FOR STARTUPS

The New York Times



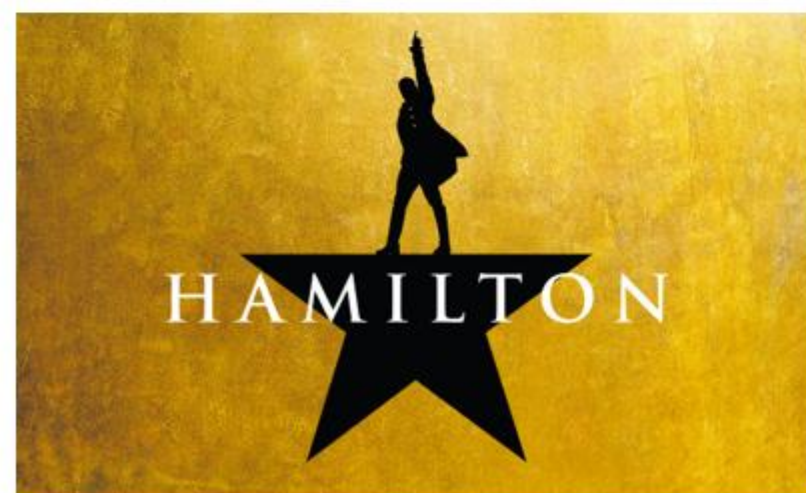
SONOS

GROUPON

ebay



PHILIPS



# *Thank you!*

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