

# Debugging, Testing, and Publishing a Flutter App

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## ERROR REPORTING FEATURES IN A FLUTTER APP



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The Wired Brain Coffee Company

Developed their Flutter app for ordering coffee

Improve their app by solving several problems they encountered in production



# Why Error Reporting?

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# App Environments

## Development

Where developers code  
and debug

## Stage

Where testers test and  
send feedback

## Production

Where client uses with  
the app



Catching errors and fixing them before your customers notice, will boost user experience and build strong trust in your app



# Overview



## Handling errors in Flutter

- Dart VM
- Flutter framework
- Native

## Capturing errors

- Using Sentry
- Using Firebase Crashlytics



# Understanding Errors in Flutter

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# App Environments

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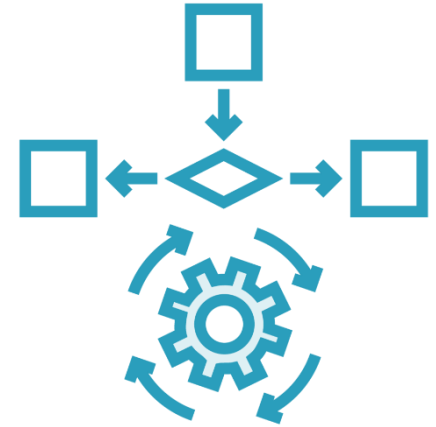
# Errors in Flutter



Dart VM



Flutter Framework



Native code



# Errors

## Caught

Using try/catch block

## Uncaught

Exceptions occur anytime

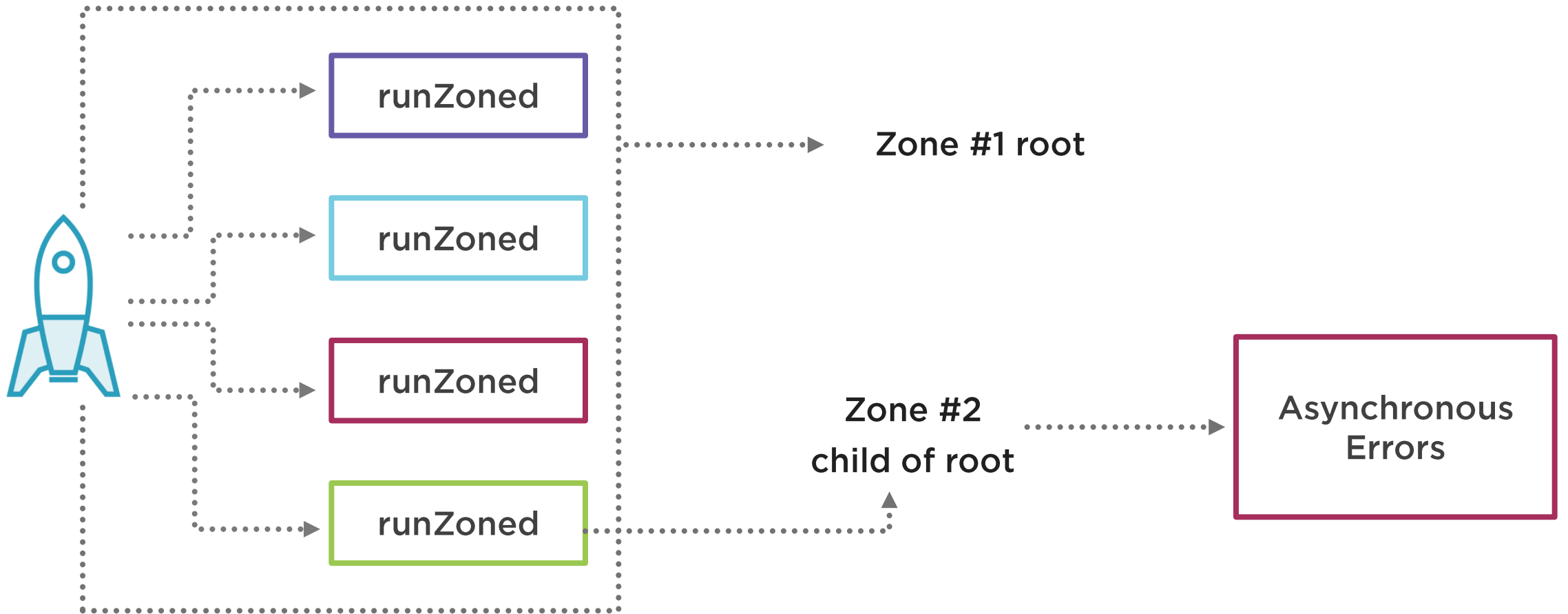


# Capture Dart Errors

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# Dart Zone



# Demo



Exceptions in Wired Brain Coffee app

Run the app in custom zone

How to capture Dart errors

How to treat errors in

- Development
- Production

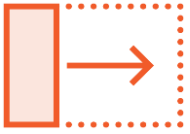


# Capture Flutter Errors

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# Flutter Framework Errors



Build



Layout



Paint phases





# Demo



Layout issue in Wired Brain Coffee app

How to capture these errors

How to treat errors in

- Development
- Production



# Report Errors to Sentry

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# Demo



Create a project in Sentry

Setup Sentry in the app

Capture errors and send to Sentry



# Additional Information to Sentry

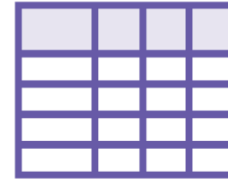
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# Additional Information



Device type



Build number



Operation system



Device name



Release version



Model

# Demo



Create custom Sentry event

Add DeviceInfo and PackageInfo

Add extra information for

- iOS
- Android

Read the extra information in Sentry



# Report Errors to Firebase Crashlytics

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# Demo



Setup Firebase account

Add Firebase Core and Crashlytics

Capture errors

Report crashes to Firebase Crashlytics

Read errors in Firebase Crashlytics





# Summary

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# Summary



## Handling uncaught errors in Flutter

- Dart errors
- Flutter framework errors

## Capturing errors

## Send errors to Crashlytics and Sentry

- Added additional information

