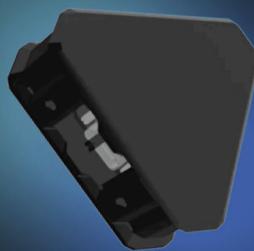


Exception: Gradle task assembleDebug failed with exit code 1 (again) in Flutter: Causes and How to Fix

February 10, 2025



Discover common causes and solutions for the Flutter error "Gradle task assembleDebug failed with exit code 1." Solve this issue quickly with our detailed guide.

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What is Exception: Gradle task assembleDebug failed with exit code 1 (again) Error in Flutter

Overview of the Error

- The error "Exception: Gradle task assembleDebug failed with exit code 1" indicates a problem within the build process of a Flutter project, specifically during the Gradle task that assembles the debug version of the application.
- This error halts the compilation of the Flutter app, preventing developers from running it in a debug mode for testing purposes.

Typical Symptoms

- Flutter commands like `flutter run` or `flutter build` fail with the mention of this specific Gradle task error.
- The terminal output may detail further sub-errors or logs, usually pointing to an underlying issue in the Gradle build configuration or dependencies.

Significance in Development

- Encountering this error can significantly disrupt the development workflow, as debugging is an essential part of Flutter app development.

- Timely resolution of such errors is crucial for maintaining productivity and ensuring that app features can be tested and verified in a timely manner.

Example Context

- Consider a scenario where a new dependency is added to the `pubspec.yaml` file. If the dependency version is incompatible with other parts of the project, it might trigger this Gradle task failure during the build process.
- Similarly, incorrect updates or configurations in the `android/build.gradle` file, such as incorrect SDK versions or missing configurations, could also lead to this build error.

Resolution Workflow

- While the exact solution is context-dependent, examining Gradle logs often provides clues. Running the build command with verbose logging can offer more insights.
- For example, adjusting the verbosity of the Flutter build environment can be achieved with the following command:

flutter run -v



- This command helps in gathering detailed logs, which can aid in determining the precise cause of the failure.

What Causes Exception: Gradle task assembleDebug failed with exit code 1 (again) in Flutter

Common Causes for "Gradle task assembleDebug failed with exit code 1" in Flutter

- **Dependencies Conflicts:** A common cause can be conflicts or compatibility issues between the dependencies used within the `pubspec.yaml` file.

This can happen when specific library versions are

incompatible with one another.

- **Incorrect SDK Versions:** Having mismatched SDK versions between the Android build tools, Android SDK, and Flutter SDK can cause this error. Ensure all necessary SDK components are aligned for compatibility.
- **Build Script Errors:** Errors in the `build.gradle` files, such as incorrect or missing configurations in the `android/app/build.gradle` or `android/build.gradle` files, can lead to failures during the build process.
- **Code Errors:** Syntax errors or issues in your Dart code can sometimes manifest themselves during the build process, causing Gradle task failures. Such issues can include missing semicolons, incorrect import statements, or improper code structure.
- **Manifest Issues:** Inconsistencies or misconfigurations in the `AndroidManifest.xml` file, such as incorrect package names or missing permissions, can result in build errors.
- **Resource Conflicts:** When there are conflicting resource files or naming conflicts within the subdirectories of the `res` folder in the Android project structure, Gradle might fail to assemble the debug version.
- **Environmental Issues:** Settings within your development environment, such as incorrect Java Home configurations or outdated Android Studio installations, might interfere with the Gradle build process.

- **Outdated Plugins:** Using outdated or deprecated plugins in your project could cause the build process to fail. Regular updates and maintenance of such plugins are essential for stable build processes.

```
android {  
    compileSdkVersion 30  
    ...  
  
    defaultConfig {  
        applicationId "com.example.myapp"  
        minSdkVersion 21  
        targetSdkVersion 30  
        ...  
    }  
    ...  
}
```

```
dependencies:  
  flutter:  
    sdk: flutter  
  cupertino_icons: ^0.1.3  
  some_package: ^1.0.0
```

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How to Fix Exception: Gradle task assembleDebug failed with exit code 1 (again) in Flutter

Ensure Flutter and Dart Are Updated

- Run the following commands to update Flutter and Dart to their latest stable versions. Keeping the tools updated can often resolve many build issues:

omi
flutter pub upgrade

flutter pub upgrade

Clear Flutter and Gradle Caches

- Clearing the cache can resolve conflicts or corruption that may have been introduced over time. This step ensures that all dependencies are fetched fresh:

flutter clean

rm -rf ~/.gradle/caches/

Update Gradle Wrapper

- Ensure your project is using the latest Gradle Wrapper. Navigate to the `android/` directory of your Flutter project and run:

./gradlew wrapper --gradle-version latest

Match SDK Versions

- Ensure that your build.gradle file matches the latest SDK version installed on your machine. Edit your `android/app/build.gradle` file to set the right compileSdkVersion and targetSdkVersion:

```
android {  
    compileSdkVersion 33
```

```
defaultConfig {  
    targetSdkVersion 33  
}  
}
```



Sync Gradle Files

- Sometimes, syncing the Gradle files can solve the issue. Open the `android` directory in Android Studio and click on `Sync Project with Gradle Files`.

Add or Update Android SDK in Environment Path

- If your Android SDK path is not properly set, it might be causing the error. Make sure your environment variables are set correctly. If necessary, add the SDK path to your environment variables:

```
export ANDROID_HOME=$HOME/Android/Sdk  
export PATH=$PATH:$ANDROID_HOME/emulator  
export PATH=$PATH:$ANDROID_HOME/tools  
export PATH=$PATH:$ANDROID_HOME/tools/bin  
export PATH=$PATH:$ANDROID_HOME/platform-tools
```

Investigate Dependencies

- In some cases, conflicts or issues with specific dependencies might be causing the problem. Open your `pubspec.yaml`, review each plugin version, and ensure that they are compatible with your current Flutter version. Update them as needed:

```
dependencies:  
  flutter:
```

sdk: flutter



Run a Clean Build

- If none of the above fixes worked, try creating a completely new build. Sometimes projects can have lingering issues due to older build artifacts. Run the following command:

```
flutter build apk --debug
```

Additional Diagnostics

- As a last resort, investigate the output of the Gradle build for more insights and attempt a manual build while ensuring network connectivity to resolve any potential library download issues. Use the following command to execute a more detailed build:

```
flutter run --verbose
```

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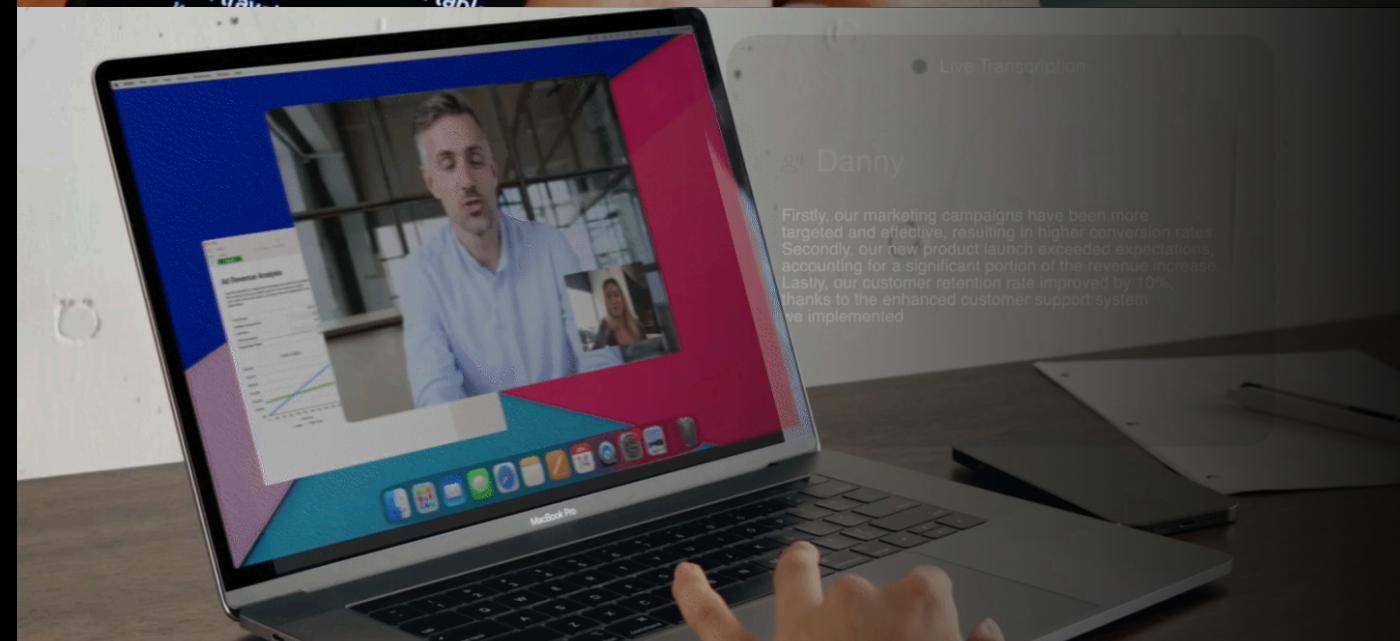
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omi Overview

The conversation revolves around various tasks and preparations the speaker needs to complete, including sending gifts, preparing for a conference in New York, and making travel arrangements.

Action Items

- Send PCBWay gifts
- Write Father's Day card for dad
- Prepare for New York conference
- Get custom shirts and tables
- Get travel documents ready



Work

Financial Report Submission
Yesterday • 12:37PM

[00:00:00] Speaker 1
Good morning, everyone. Let's get started with the financial report for Q2.

[00:00:04] Speaker 2
Morning, Alice. Can we begin with the revenue figures?

[00:00:07] Speaker 1
Of course. Our total revenue for Q2 was \$1.2 million, which is a 10% increase from Q1.

[00:00:14] Speaker 3
The launch of our new product line increased sales in the North American market. We're expenses in line with the revenue?

[00:00:28] Speaker 2
Our expenses did increase slightly, by about 5%. This was because of higher marketing costs and R&D investments.

[00:00:34] Speaker 1
Great summary, Alice. Let's move on to the next item on the agenda.

Play Recording Share

Welcome back, Nash

Work Financial Report Submission Today • 12:37PM

Persona Early Morning Catch-up with Natasha Yesterday • 9:10AM

Appointment Tokyo's Vet Appointment Yesterday • 7:35PM

Persona Dinner Meeting with Sam Yesterday • 6:12PM

Health Gym Session with Francisco Yesterday • 5:30PM

Work Capture Memories Chat

Financial Report Submission
Date created: June 3, 2024
Time created: 12:37PM
Category: Work

Overview

This transcript outlines a detailed discussion on the financial performance for Q2, highlighting significant revenue growth, a moderate increase in expenses, and a substantial rise in net profit. Participants discuss key drivers and areas for future monitoring to ensure continued financial health.

Action Items

- Schedule collaboration meeting
- Monitor marketing expenditures
- Track key financial metrics
- Prepare for next financial review
- Send calendar invite

Doctor Notes
Capture Memories



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Key Specs

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OMI DEV KIT 2

Microphone

Yes

Battery

4 days (250mAH)

2 days (250mAH)

On-board memory (works without phone)

No

Yes

Speaker

No

Yes

Programmable button

No

Yes

Estimated Delivery

-

1 week

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What people say

**"Helping with
MEMORY,
COMMUNICATION
with business/life
partner,
capturing IDEAS,
and solving for
a hearing
CHALLENGE."**

Nathan Sudds

**"I wish I had this
device
last summer
to RECORD
A CONVERSATION."**

Chris Y.

**"Fixed my ADHD
and
helped me stay
organized."**

David Nigh

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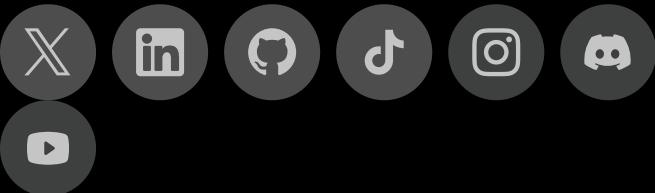
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Perso
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Downl
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