

OS별 빌드 오류 처리

Android

안드로이드의 경우 bootpay 패키지의 내부 디펜던시 중

bootpay_webview_flutter_android 패키지에 설정된 minSdkVersion에 비해 프로젝트의 minSdkVersion이 낮아 빌드가 되지 않는 다는 에러가 발생 할 수 있습니다.

```
uses-sdk:minSdkVersion 16 cannot be smaller than version 19 declared in library [[:bootpay_webview_flutter_android]] /Users/bobby/workspace/lecture/e-commerce-app/build/bootpay_webview_flutter_android/intermediates/merged_manifest/debug/AndroidManifest.xml as the library might be using APIs not available in 16
Suggestion: use a compatible library with a minSdk of at most 16,
or increase this project's minSdk version to at least 19,
or use tools:overrideLibrary="kr.co.bootpay.webviewflutter" to force usage (may lead to runtime failures)

FAILURE: Build failed with an exception.
```

bootpay_webview_flutter_android 의 코드를 보면 아래 이미지와 같이 build.gradle에 minSdkVersion 이 19로 설정된 것을 볼 수 있습니다.

```
android {
    compileSdkVersion 33

    defaultConfig {
        minSdkVersion 19
        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
    }
}
```

이때는

Flutter Fix

The plugin bootpay_webview_flutter_android requires a higher Android SDK version.

Fix this issue by adding the following to the file

/Users/bobby/workspace/lecture/e-commerce-app/android/app/build.gradle:

```
android {
    defaultConfig {
        minSdkVersion 19
    }
}
```

Following this change, your app will not be available to users running Android SDKs below 19.

Consider searching for a version of this plugin that supports these lower versions of the Android SDK instead.

For more information, see:

<https://docs.flutter.dev/deployment/android#reviewing-the-gradle-build-configuration>

아래 제안 사항에 따라 flutter 프로젝트의 minSdkVersion을 19로 명시해주시면 해결됩니다.

{project}/android/app/build.gradle 파일을 열고,

```
defaultConfig {
    // TODO: Specify your own unique Application ID (https://developer.android.com/studio/build/application-id.html).
    applicationId "com.example.e_commerce_app"
    // You can update the following values to match your application needs.
    // For more information, see: https://docs.flutter.dev/deployment/android#reviewing-the-gradle-build-configuration.
    minSdkVersion flutter.minSdkVersion
    targetSdkVersion flutter.targetSdkVersion
    versionCode flutterVersionCode.toInteger()
    versionName flutterVersionName
}
```

이렇게 작성되어 있는 부분을

```
defaultConfig {
    // TODO: Specify your own unique Application ID (https://developer.android.com/studio/build/application-id.html).
    applicationId "com.example.e_commerce_app"
    // You can update the following values to match your application needs.
    // For more information, see: https://docs.flutter.dev/deployment/android#reviewing-the-gradle-build-configuration.
    minSdkVersion 19
    targetSdkVersion flutter.targetSdkVersion
    versionCode flutterVersionCode.toInteger()
    versionName flutterVersionName
}
```

이렇게 변경한 후 빌드해주시면 됩니다.

ios

ios의 경우 xcode 버전에 따라 bootpay package를 설치한 후 아래와 같은 에러가 발생할 수 있습니다.

```
Launching lib/main.dart on iPhone 14 Pro Max in debug mode...
Running pod install...
Running Xcode build...
Xcode build done. 6.3s
Failed to build iOS app
Error (Xcode): File not found: /Applications/Xcode.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/lib/arc/libarclite_iphonesimulator.a

Error (Xcode): Linker command failed with exit code 1 (use -v to see invocation)

Could not build the application for the simulator.
Error launching application on iPhone 14 Pro Max.
```

현재 위와 같은 에러 확인 된 xcode 버전 : 14.3.1 (14E300c)

이경우, ios/Podfile 하단에 아래와 같은 코드 부분을

```
post_install do |installer|
  installer.pods_project.targets.each do |target|
    flutter_additional_ios_build_settings(target)
  end
end
```

이렇게 수정하고 빌드를 해주시면 됩니다.

```
post_install do |installer|
  installer.pods_project.targets.each do |target|
    flutter_additional_ios_build_settings(target)
    target.build_configurations.each do |config|
      config.build_settings['IPHONEOS_DEPLOYMENT_TARGET'] = '13.0'
    end
  end
end
```

ios 빌드 시 설치된 라이브러리들의 deployment_target을 적절한 버전으로 세팅해주는 내용의 hook을 작성 하여 해결하는 방식입니다.

참고

- <https://stackoverflow.com/a/37289688>
- <https://stackoverflow.com/a/75899204>