

MyLibrary Side

build.gradle

The library needs to be built with ANDROID_STL=c++_shared or else the the cone STL rule will be broken. The error message you get for this is hidden and also terrible. It's something we shared or else the the cone STL rule will be broken.

```
externalNativeBuild {
  cmake {
    arguments '-DANDROID_STL=c++_shared'
    cppFlags '-std=c++14'
  }
}
```

You could also go the other way and change MyLibrary CMakeLists.txt to produce a static libmylibrary.a.

MyApp Side

build.gradle

Also needs ANDROID_STL=c++_shared.

```
externalNativeBuild {
  cmake {
    arguments '-DANDROID_STL=c++_shared'
    ...
  }
}
```

CMakeLists.txt

Should use find_package() instead of find_library().

```
find_package(app REQUIRED CONFIG)
```

Note that it's called 'app' because that's the name of the module in 'MyLibrary'. If you change it to 'lib' or similar then you can have a more intuitive find_package(...) call.

In order to use the package, you have to modify target_link_libraries(...) to reference it.

```
target_link_libraries(
    myapp
    ${log-lib}
    app::mylibrary)
```

I'm uploading a fixed version of the project.

Note

Starting in recent Android Studio Bumblebee canaries, you can have MyApp and MyLibrary in the same project and use a module-to-module dependency:

```
dependencies {
  implementation project(":lib")
}
```



ps...@gmail.com <ps...@gmail.com>#3

Sep 14, 2021 06:4

Thank you, that has solve my problem. I had actually tried

```
externalNativeBuild {
  cmake {
    arguments '-DANDROID_STL=c++_shared'
    cppFlags '-std=c++14'
  }
}
```

before but forgot to put that into the projects I sent you (this only seems to work when placed inside defaultConfig { externalNativeBuild { ... } })

 $\textbf{The part I was missing was:} \ \texttt{find_package(app} \ \ \texttt{REQUIRED} \ \ \texttt{CONFIG)} \ \ \textbf{and} \ \ \texttt{target_link_libraries(myapp} \ \ \$ \{\texttt{log-lib}\} \ \ \texttt{app::mylibrary})$

Again, I had tried that too before at some point, but it was not clear to me from the online docs that I had to use app as you pointed out. I was using mylibrary instead. Bugger!

Thanks for sorting this.

 $PS\:I\:adapted\:my\:original\:projects\:and\:put\:a\:working\:demo\:on\:my\:github:\: \verb|https://github.com/pshdevio/android-studio-native-aar-sample| | the com/pshdevio/android-studio-native-aar-sample| | the com/pshdevio/android-studio-native-aar-sample|$

Message last modified on Sep 14, 2021 07:28PM

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ps@gmail.com <ps@gmail.com> #5</ps@gmail.com>	Sep 14, 2021 09:1
There's a final problem:	
If I rename my module library (as you suggested) to e.g. mylibraryname using right click / Refactor on "app" then I get the following error on build (I cleaned etc beforehand):
CMake Error at CMakeLists.txt:46 (find_package): Could not find a package configuration file provided by "mylibraryname" with any of the following names:	
mylibrarynameConfig.cmake mylibraryname-config.cmake	
Add the installation prefix of "mylibraryname" to CMAKE_PREFIX_PATH or set "mylibraryname_DIR" to a directory containing one of the above files. If "mylibraryname" provides a separate development package or SDK, be sure it has been installed.	
ninja: error: rebuilding 'build.ninja': subcommand failed	
-	
I was able to fix this by renaming as 'app' and cleaning projects and invalidation caches etc.	
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