# SMAATSDK

## INSTALLATION MANUAL FOR THE

## SMAATSDK ON ANDROID

## RELEASE v1.0

Serimag

# Table of contents

# Scope

This document contains an introduction and detailed explanation of all the steps that must be taken to correctly integrate Release v1.0 in Android Studio.

# Purpose

The purpose of this document is to help the customer to properly integrate Release v1.0 in an Android Studio 2.3.1 or later project.

# Introduction

The integration of Release v1.0 is made of two parts:

1. Integration of the models: ES_ID_FRONT, ES_ID_BACK, ES_ID_23, ES_RESIDENCE_FRONT, ES_RESIDENCE_BACK and EU_CHECK_FRONT. Integration of the *"engine.cfg"* and *"post.cfg" files is also required.* This part is explained in detail in the document "IntelligentScanner Module Requirements and documentation.pdf".
2. Integration of AAR files in IntelligentScanner (intelligentscannerlibrary.aar), Post-Processing (postprocesslibrary.aar) and the NFC Module (nfclibrary.aar) cases.

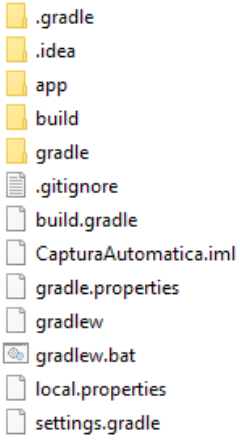
A series of steps are explained below for integrating the AARs in a Android Studio 2.3.1 or later project.

# IntelligengScanner Module integration

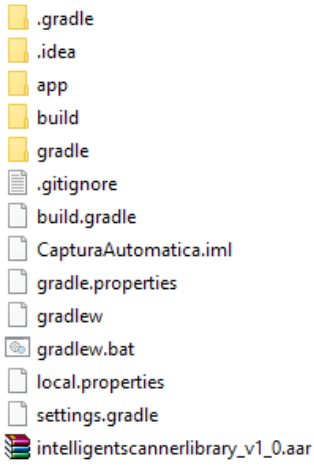
For IntelligentScanner Module integration, take the following steps:

1. Paste the intelligentscannerlibrary_v1_0.aar file into the project folder.

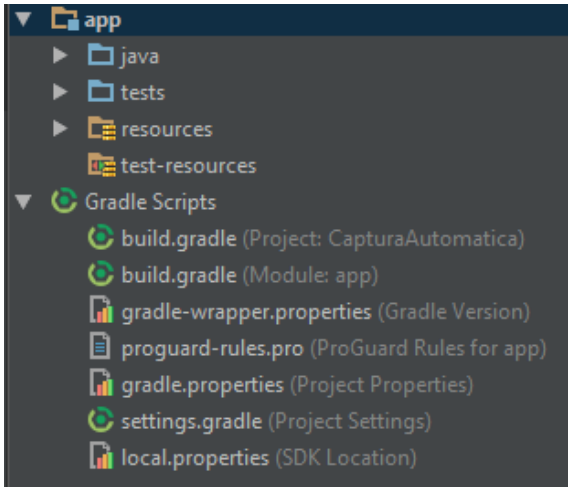
*Before copying the aar*



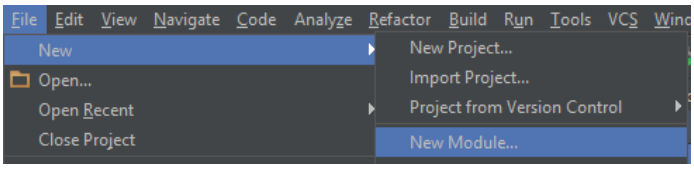

*After copying the aar*



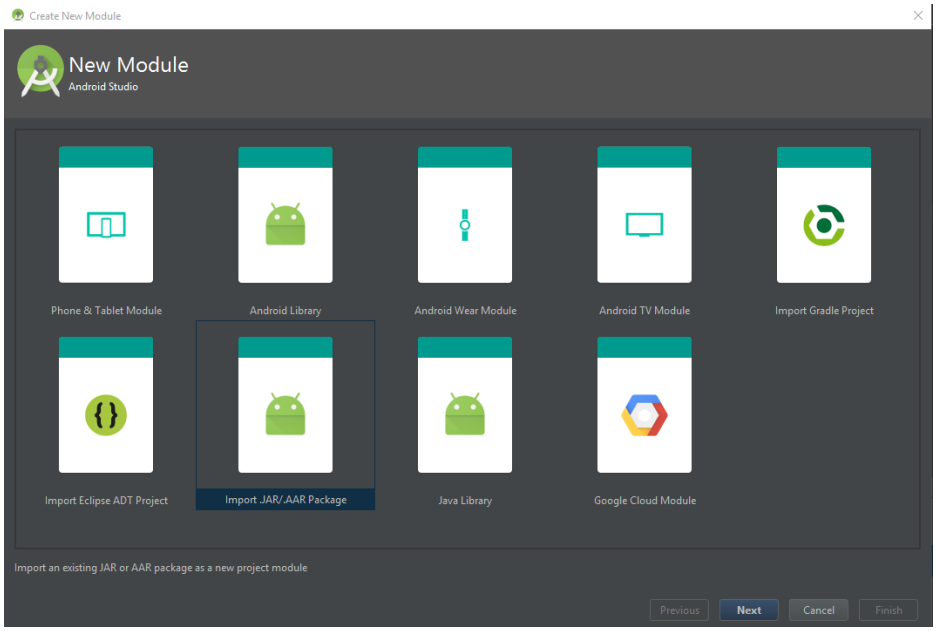
2. Then, open the project with Android Studio 2.3.1 or later and proceed to integrate the aar. In this case, we have a simple project that has the application folders and Gradle.



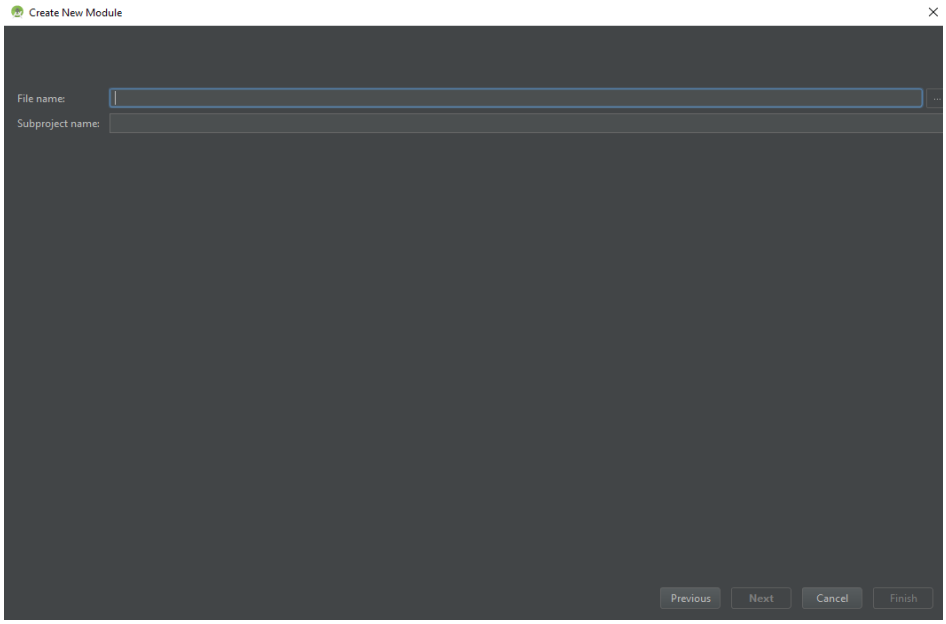

3. Click on **“File” → “New” → “New Module”**



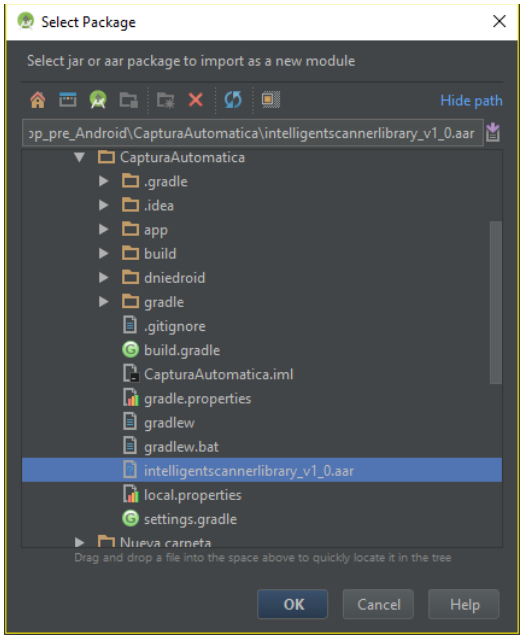

and the following window will appear:



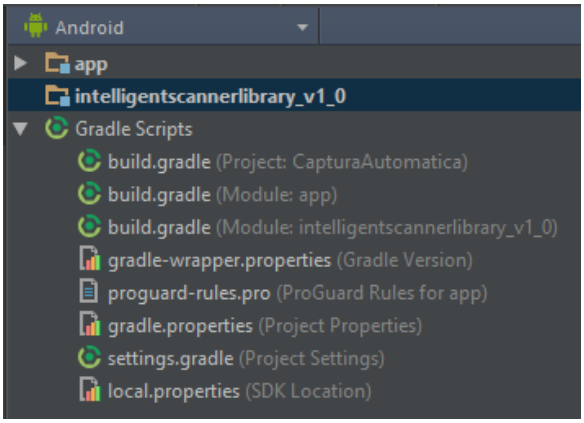
4. Select the “**Import JAR/AAR.Package” → “Next”** option, and the following window will appear:



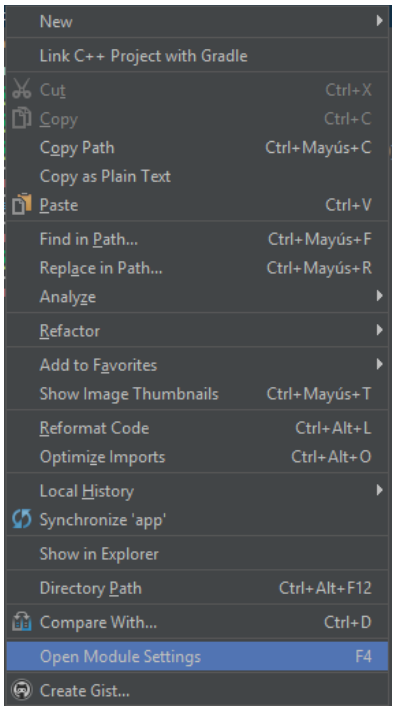

5. In the "File name" section, select the “intelligentscannerlibrary_v1_0.aar” file from the project folder:



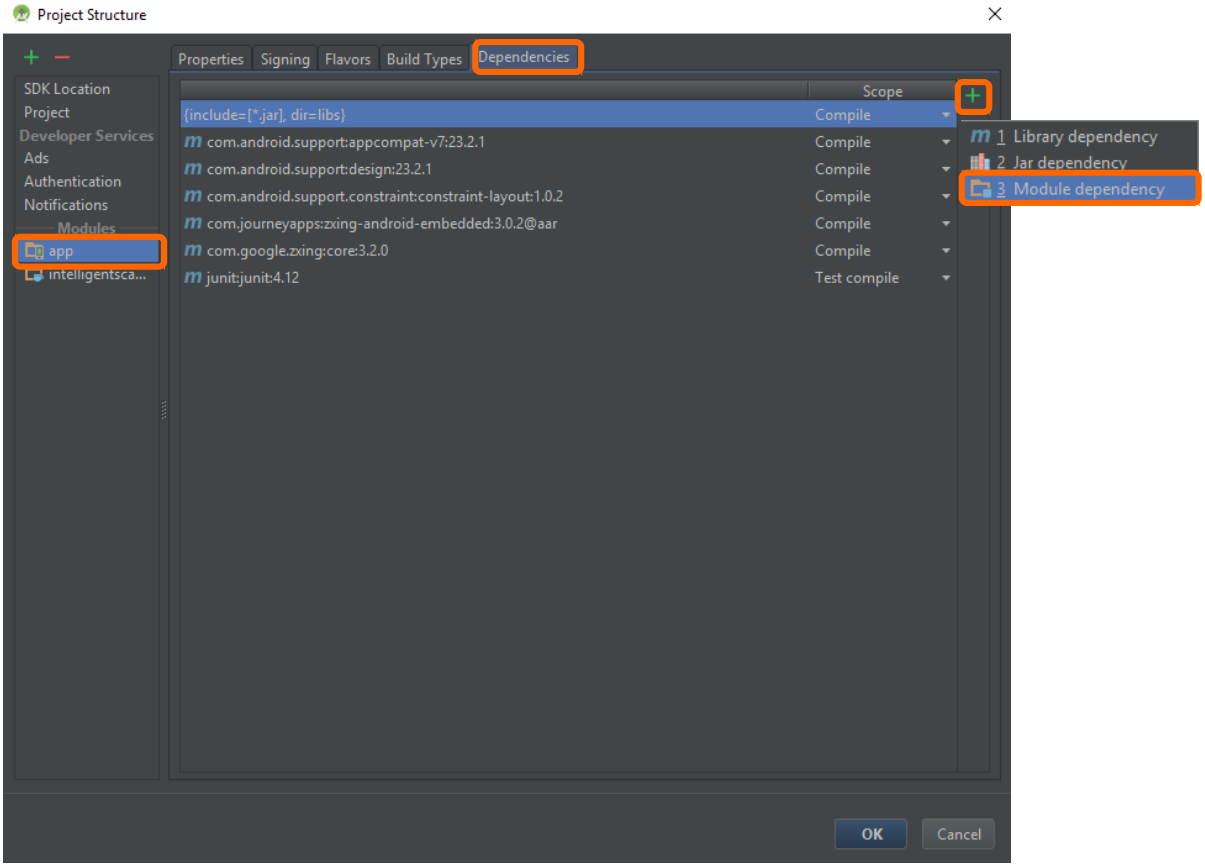
6. In the project folders, a new folder should be automatically added called intelligentscannerlibrary_v1_0, as you can see in the following capture:



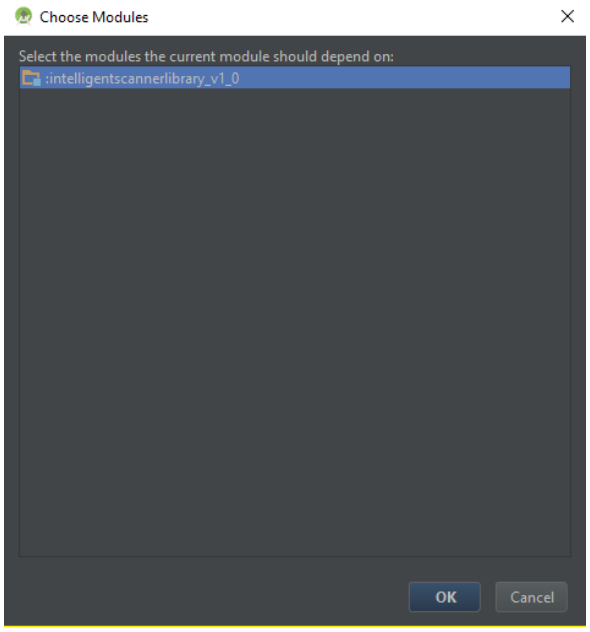

7. Once the aar file is integrated, its dependencies should be added. To do this, access them by **right clicking** on the **"app" folder → "Open Module Settings"**.



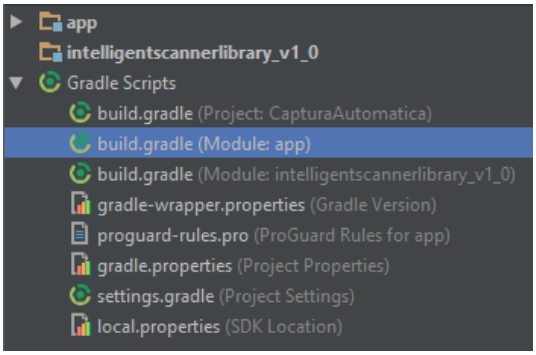
The following window will then be displayed:




Click on: **"app" → "Dependencies" → "+" → "Module dependency"**, select the intelligentscannerlibrary_v1_0 module.



8. Finally, check that the dependencies have been added correctly. To do this, access the **"Gradle Scripts" → "build.gradle (Module:app)"** section:




In the dependencies section, check that the

```
compile project(':intelligentscannerlibrary_v1_0')
```

line has been added correctly. If not, add it manually.

```
dependencies {
    compile fileTree(include: ['*.jar'], dir: 'libs')
    compile 'com.android.support:appcompat-v7:23.2.1'
    compile 'com.android.support:design:23.2.1'
    compile 'com.android.support.constraint:constraint-layout:1.0.2'
    testCompile 'junit:junit:4.12'
    compile project(':intelligentscannerlibrary_v1_0')

}
```

9. The IntelligentScanner module uses a series of external libraries. The following lines should be added manually:

```
compile 'com.journeyapps:zxing-android-embedded:3.0.2@aar'
compile 'com.google.zxing:core:3.2.0'
compile 'com.rmtheis:tess-two:8.0.0'
```

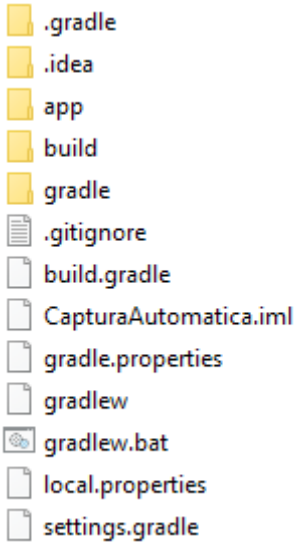
```
dependencies {
    compile fileTree(include: ['*.jar'], dir: 'libs')
    compile 'com.android.support:appcompat-v7:23.2.1'
    compile 'com.android.support:design:23.2.1'
    compile 'com.android.support.constraint:constraint-layout:1.0.2'
    testCompile 'junit:junit:4.12'
    compile project(':intelligentscannerlibrary_v1_0')
    compile 'com.journeyapps:zxing-android-embedded:3.0.2@aar'
    compile 'com.google.zxing:core:3.2.0'
    compile 'com.rmtheis:tess-two:8.0.0'

}
```

# Post-Processing Module Integration

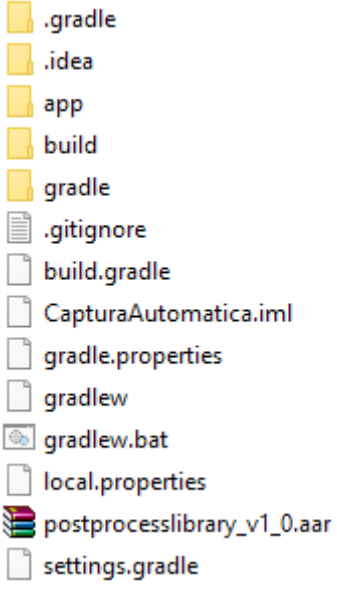
For Post-Processing Module integration, take the following steps:

1. Paste the postprocesslibrary_v1_0.aar file into the project folder.

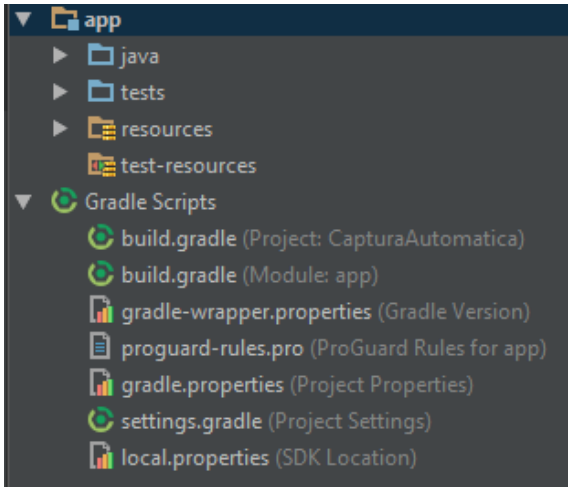
*Before copying the aar*



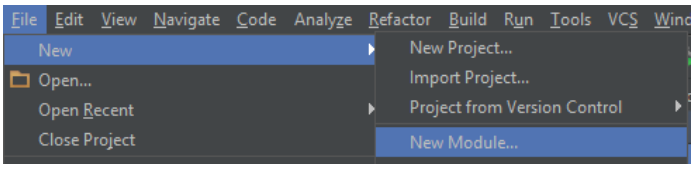

*After copying the aar*



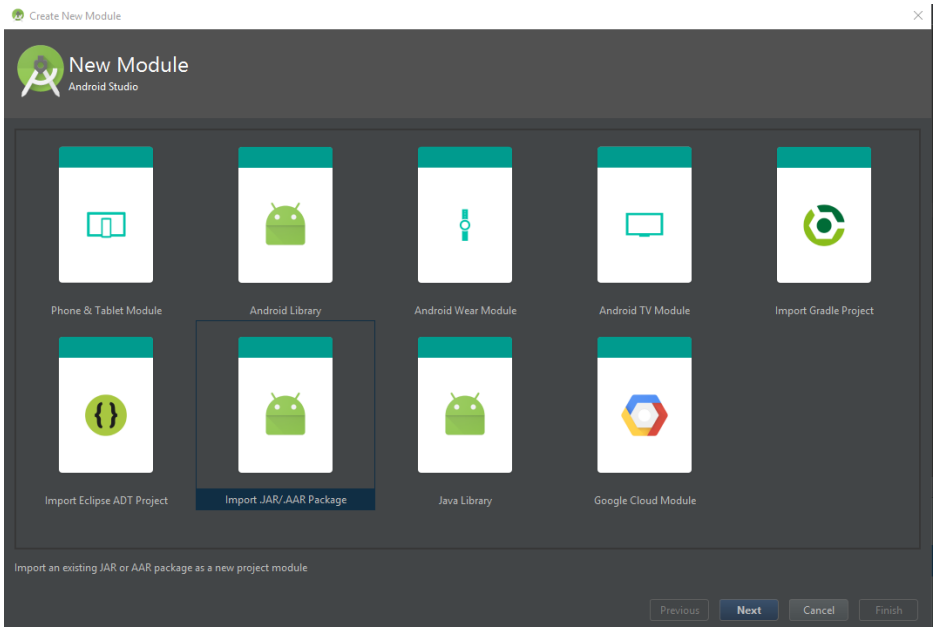
2. Then, open the project with Android Studio 2.3.1 or later and proceed to integrate the aar. In this case, we have a simple project that has the application folders and Gradle.



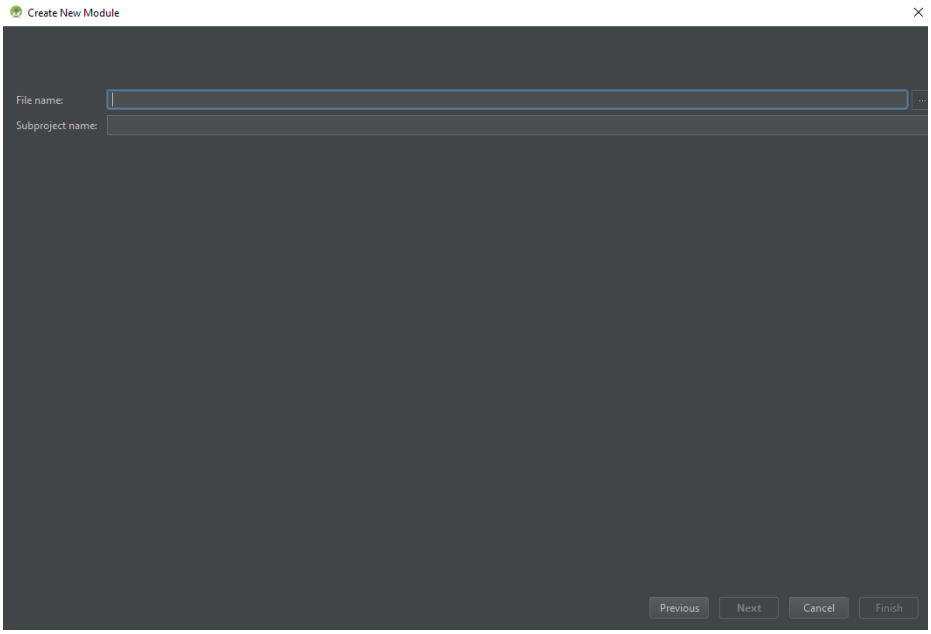

3. Click on **“File” → “New” → “New Module”**



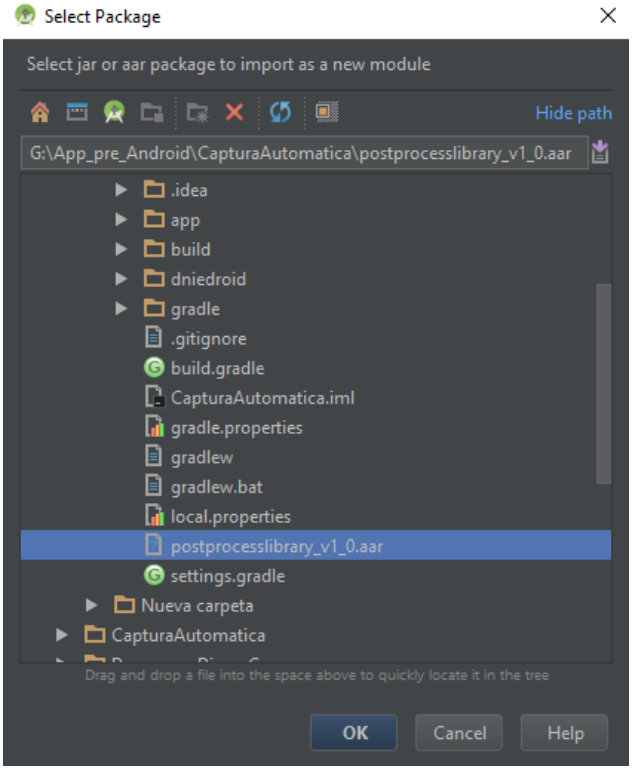

and the following window will appear:



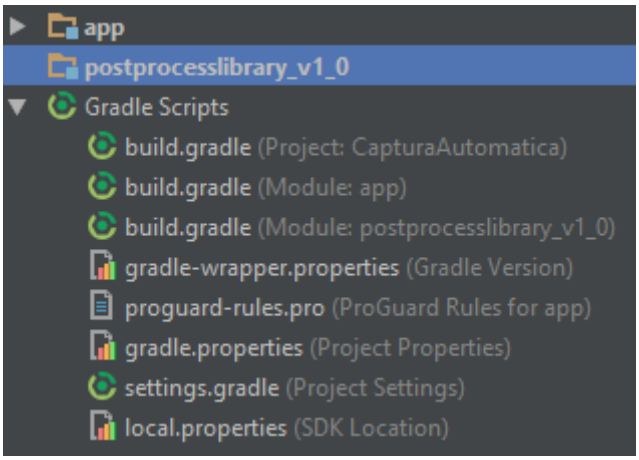
4. Select the “**Import JAR/AAR.Package” → “Next”** option, and the following window will appear:



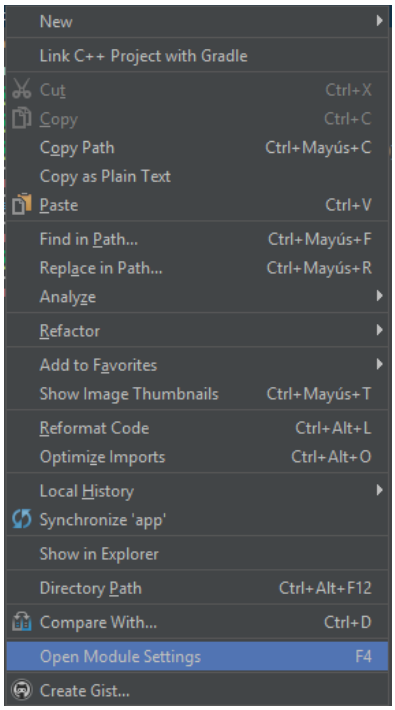

5. In the "File name" section, select the “postprocesslibrary_v1_0.aar” file from the project folder:



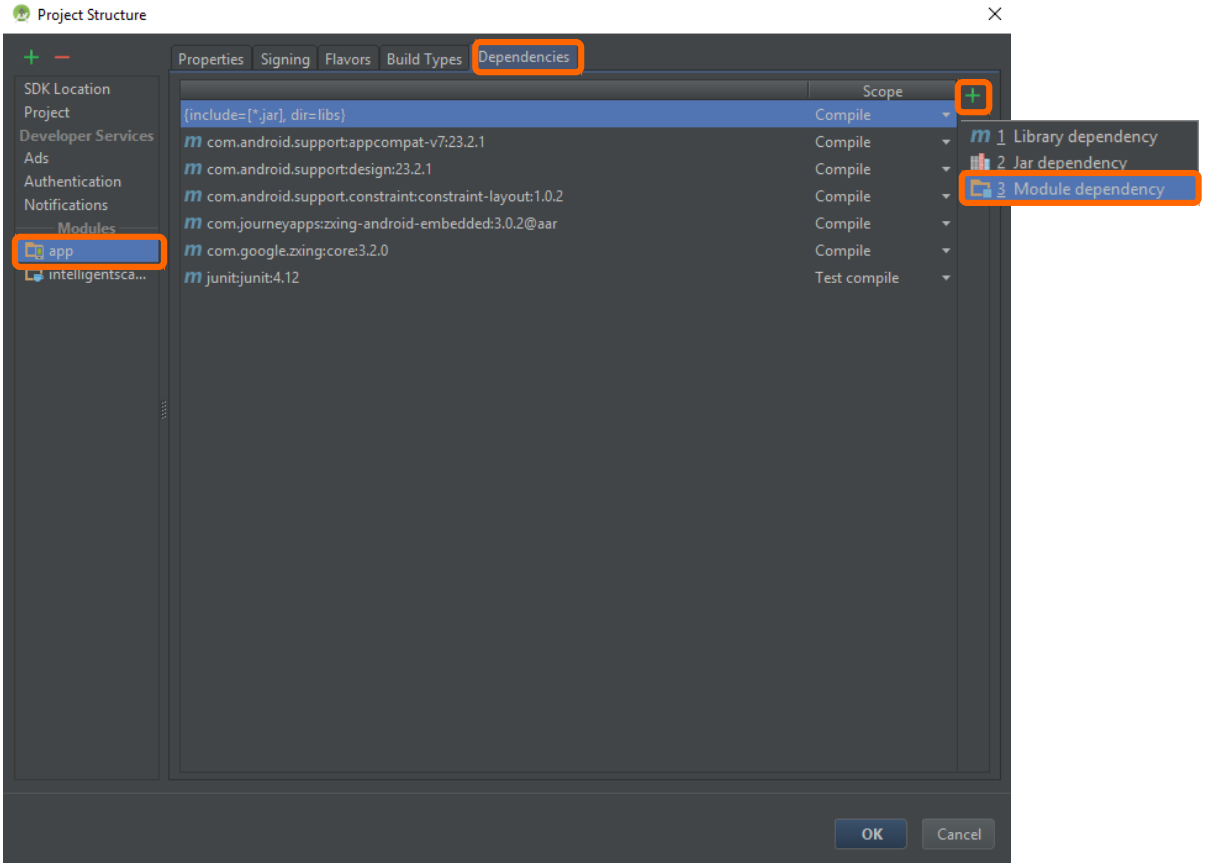
6. In the project folders, a new folder should be automatically added called postprocesslibrary_v1_0, as you can see in the following capture:



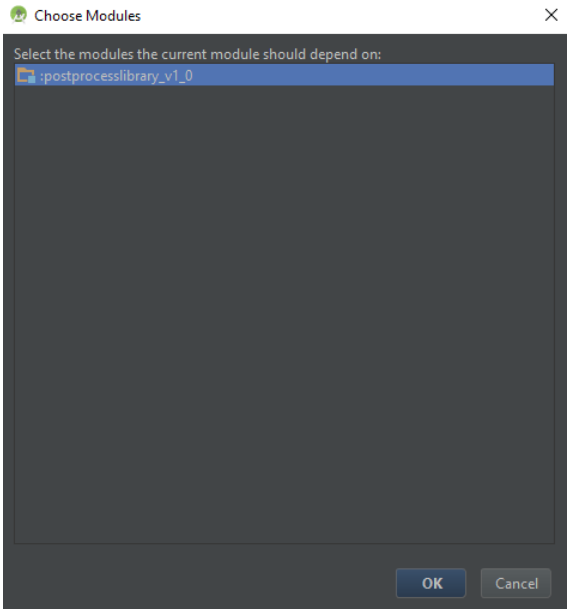

7. Once the aar file is integrated, its dependencies should be added. To do this, access them by **right clicking** on the **"app" folder → "Open Module Settings"**



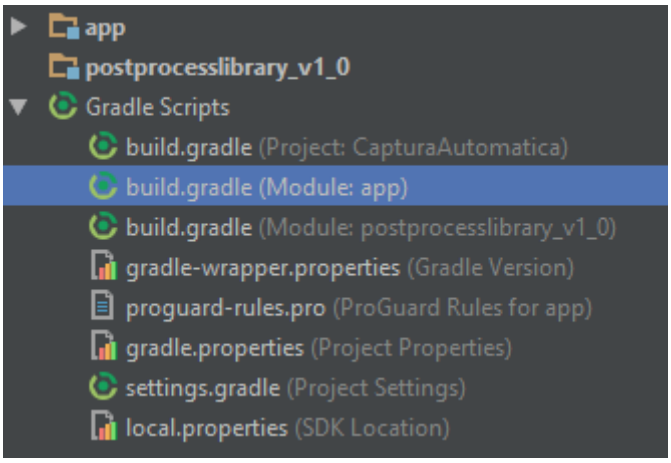
The following window will then be displayed:




Click on: “**app**” → “**Dependencies**” → “**+**” → “**Module dependency**”, select the postprocesslibrary_v1_0 module.



8. Finally, check that the dependencies have been added correctly. To do this, access the **"Gradle Scripts" → "build.gradle (Module:app)"** section:




In the dependencies section, check that the

```
compile project(':postprocesslibrary_v.1.0')
```

line has been added correctly. If not, add it manually.

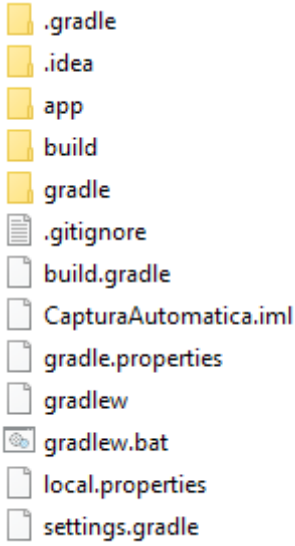
```
dependencies {
    compile fileTree(include: ['*.jar'], dir: 'libs')
    compile 'com.android.support:appcompat-v7:23.2.1'
    compile 'com.android.support:design:23.2.1'
    testCompile 'junit:junit:4.12'
    compile 'com.android.support.constraint:constraint-layout:1.0.2'
    compile project(':postprocesslibrary_v1_0')
}
```

# NFC Module integration

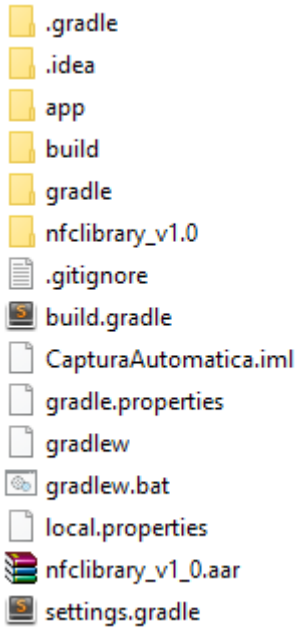
For Post-Processing module integration, take the following steps:

1. Paste the nfclibrary_v1_0.aar and dniedroid.aar files into the project folder.

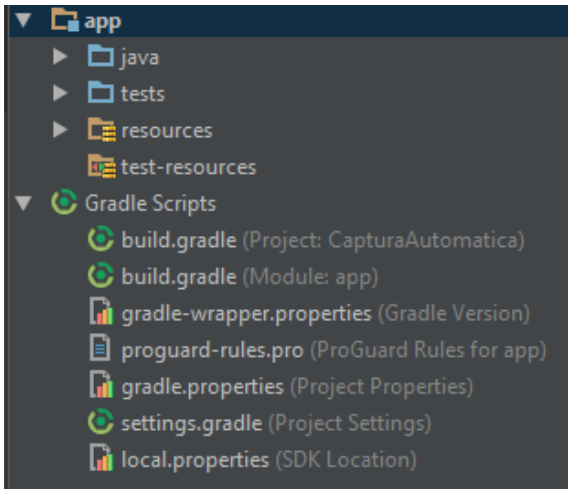
*Before copying the aar*



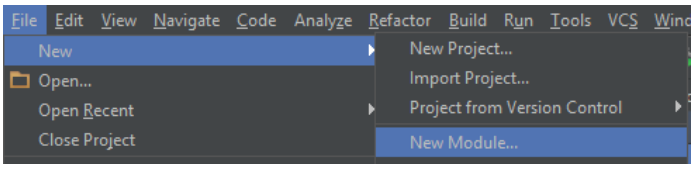

*After copying the aar*



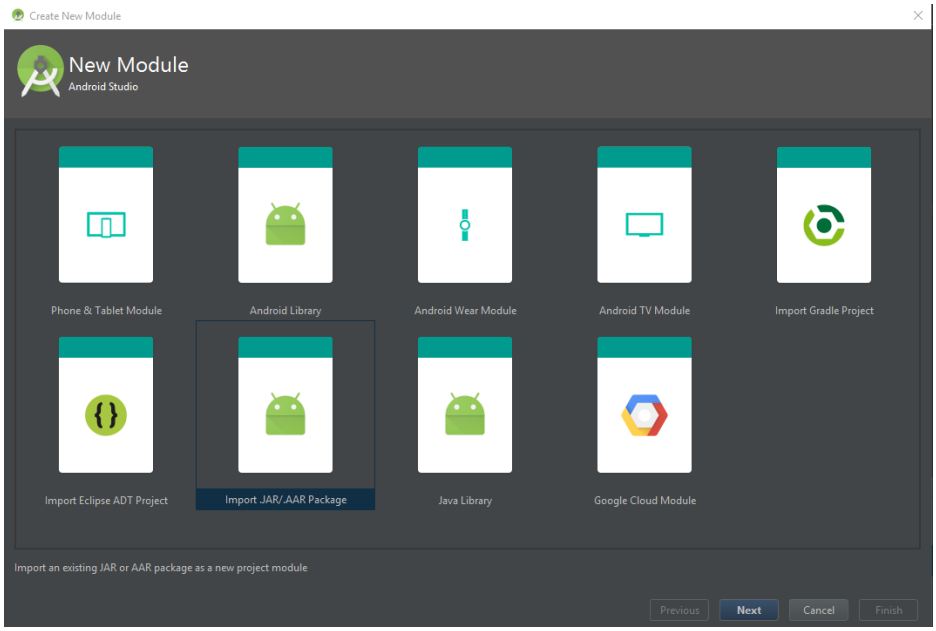

2. Then, open the project with Android Studio 2.3.1 or later and proceed to integrate the aar. In this case, we have a simple project that has the application folders and Gradle.



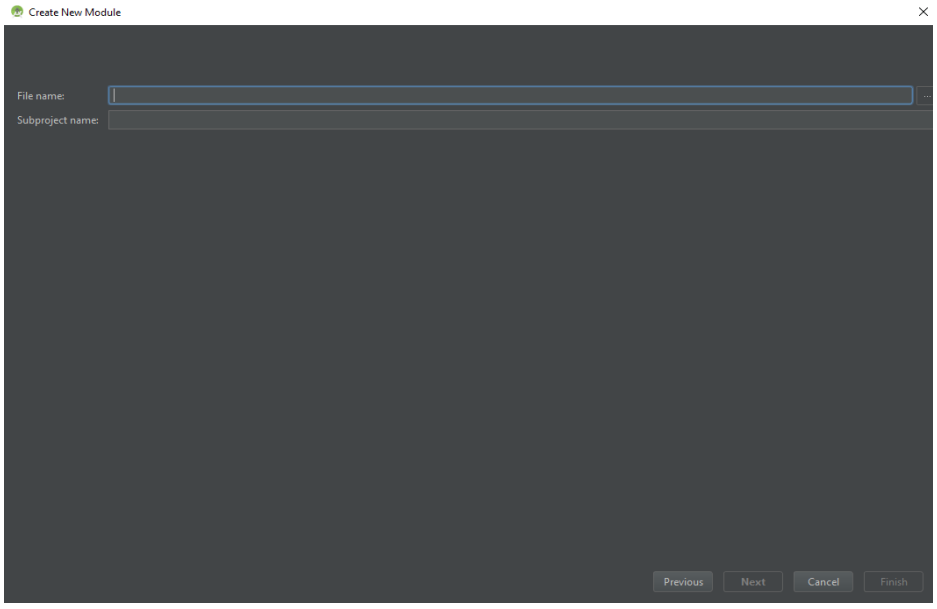
3. Click on **“File” → “New” → “New Module”,**



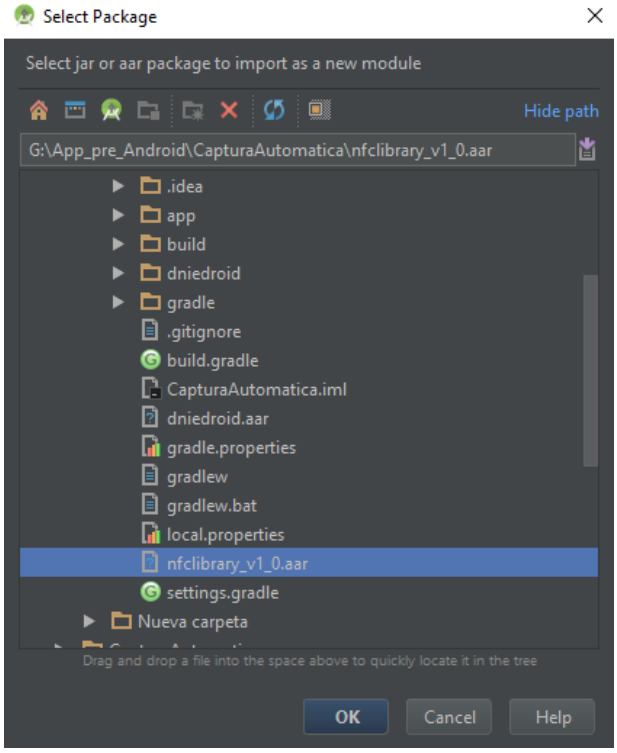

and the following window will appear



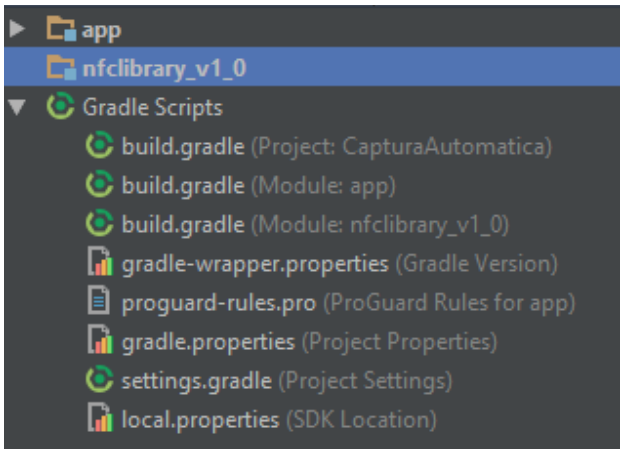

4. Select the “**Import JAR/AAR.Package” → “Next”** option, and the following window will appear:



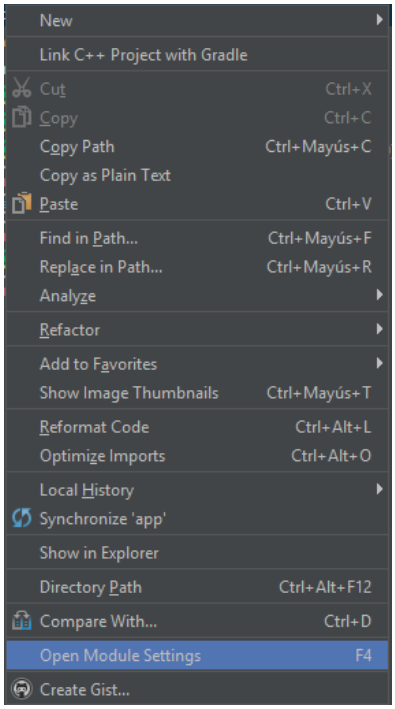
5. In the "File name" section, select the “nfclibrary_v1_0.aar” file from the project folder:



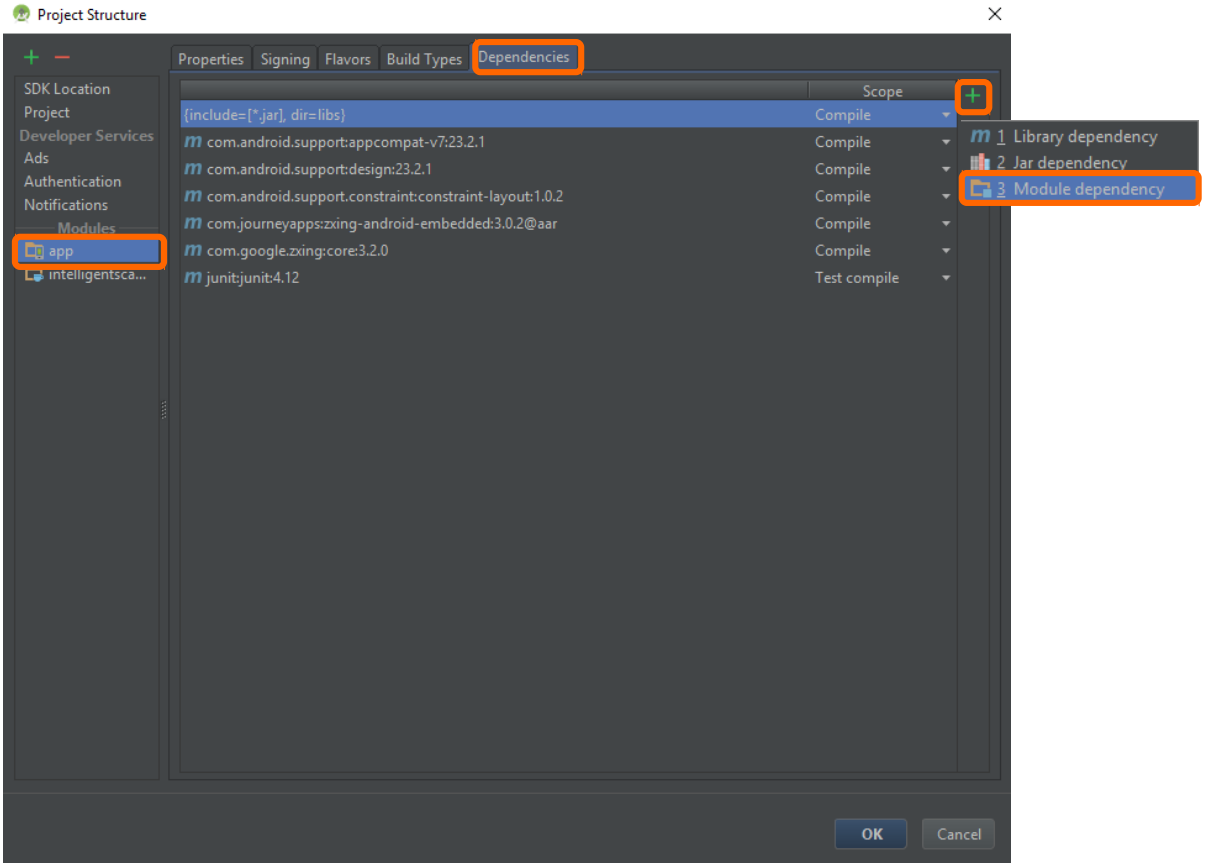

6. In the project folders, a new folder should be automatically added called nfclibrary_v1_0, as you can see in the following capture:



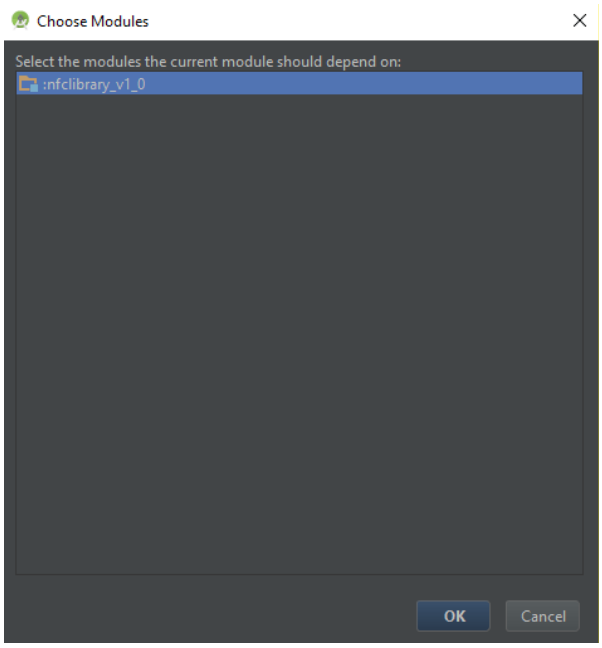
7. Once the aar file is integrated, its dependencies should be added. To do this, access them by **right clicking** on the **"app" folder → "Open Module Settings"**.



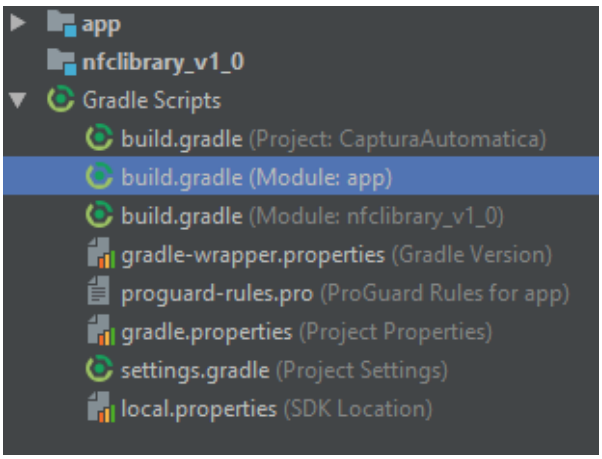
The following window will then be displayed:




By clicking on: "**app**" → "**Dependencies**" → "**+**" → "**Module dependency**", select the nfclibrary_v1_0 module.



8. Finally, check that the dependencies have been added correctly. To do this, access the **"Gradle Scripts" → "build.gradle (Module:app)"** section:




In the dependencies section, check that the

```
compile project(':nfclibrary_v1_0')
```

line has been added correctly. If not, add it manually.

```
dependencies {
    compile fileTree(include: ['*.jar'], dir: 'libs')
    compile 'com.android.support:appcompat-v7:23.2.1'
    compile 'com.android.support:design:23.2.1'
    compile 'com.android.support.constraint:constraint-layout:1.0.2'
    testCompile 'junit:junit:4.12'
    compile project(':nfclibrary_v1_0')

}
```