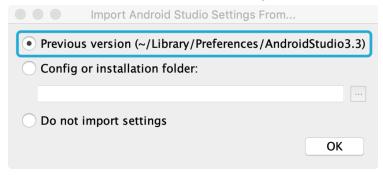


## SOFTWARE DESIGN AND ARCHITECTURE

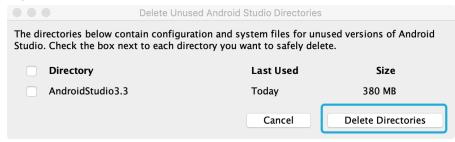
**Android Studio 2 to 3 Upgrade Tutorial** 

If you are using Android Studio 2.3 (with API 23) from our previous courses/sessions, please do the following steps to make your code works in Android Studio 3.4 (with API 26)

- Download Android Studio (version 3.4.0 or newer). Replace the old Android Studio on your machine with the newly downloaded software. <a href="https://developer.android.com/studio">https://developer.android.com/studio</a>
- 2. Install and import Android Studio Settings from previous version

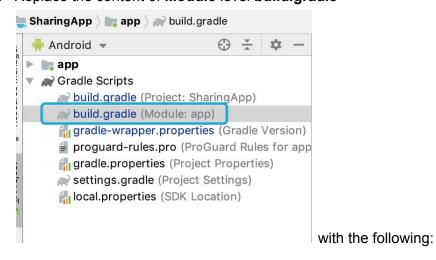


Delete **Unused Android Studio Directories** from old versions if you are not using them anymore



Open pre-existing code (See more detailed steps in **Android Studio Setup Tutorial - Mac/Windows**, follow until step 3)

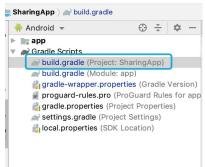
3. Replace the content of Module level build.gradle



```
apply plugin: 'com.android.application'
android {
  compileSdkVersion 26
  defaultConfig {
       applicationId "com.example.sharingapp"
      minSdkVersion 19
      targetSdkVersion 26
      versionCode 1
       versionName "1.0"
       testInstrumentationRunner
"android.support.test.runner.AndroidJUnitRunner"
  buildTypes {
      release {
           minifyEnabled false
           proguardFiles getDefaultProguardFile('proguard-android.txt'),
'proguard-rules.pro'
dependencies {
  implementation fileTree(dir: 'libs', include: ['*.jar'])
  configurations {
       all*.exclude group: 'com.google.code.gson'
androidTestImplementation('com.android.support.test.espresso:espresso-core:2.2.
2', {
       exclude group: 'com.android.support', module: 'support-annotations'
  })
  implementation 'com.google.code.gson:gson:2.8.2'
  implementation 'com.android.support:appcompat-v7:26.1.0'
  implementation 'com.android.support:support-v4:26.1.0'
  implementation 'com.android.support:design:26.1.0'
  implementation 'io.searchbox:jest-droid:2.0.0'
  testImplementation 'junit:junit:4.12'
```

Alternatively, you can also use the content of this gist to copy the code.

4. Replace the content of Project level build.gradle

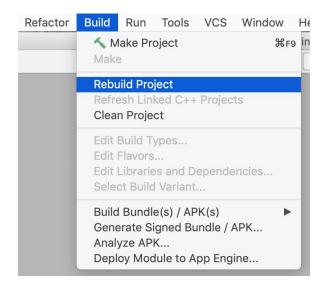


with the following:

```
// Top-level build file where you can add configuration options common to all
sub-projects/modules.
buildscript {
  repositories {
      google()
      jcenter()
  dependencies {
       classpath 'com.android.tools.build:gradle:3.4.0'
      // NOTE: Do not place your application dependencies here; they belong
       // in the individual module build.gradle files
  }
allprojects {
  repositories {
      google()
       jcenter()
  }
task clean(type: Delete) {
  delete rootProject.buildDir
```

Alternatively, you can also use the content of this gist to copy the code.

- 5. Complete step 4 in Android Studio Setup Tutorial Mac/Windows.
- 6. Rebuild the app by clicking: Build -> Rebuild Project



- 7. Complete step 5 in Android Studio Setup Tutorial Mac/Windows.
- 8. Run the app. A this point you should be able to run the app by clicking the play button.

