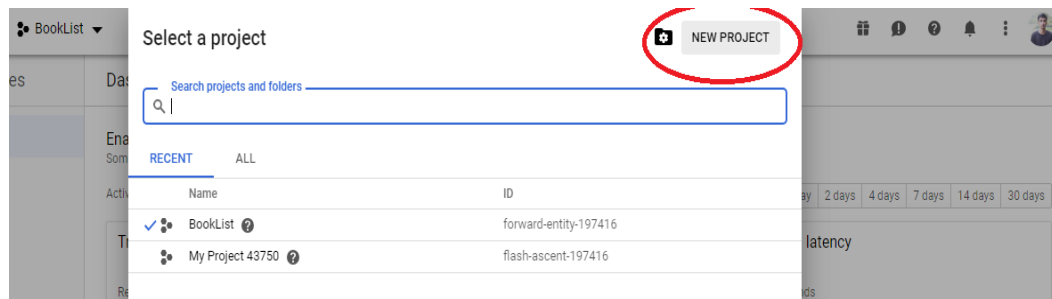
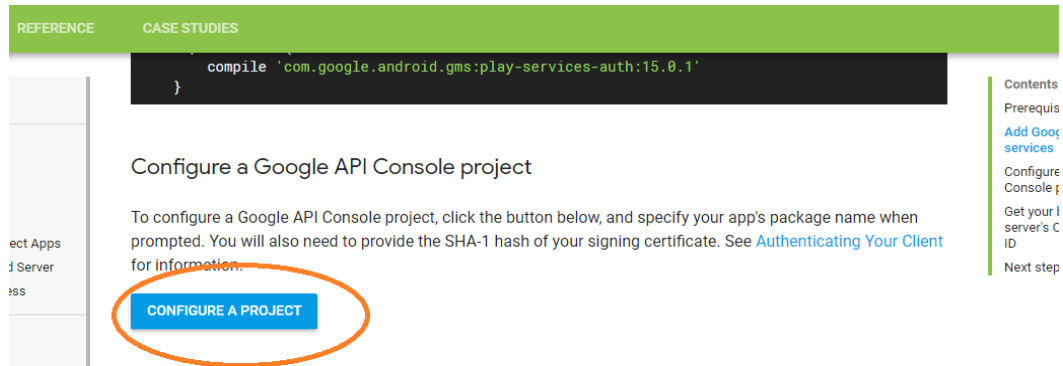


Google Sign in in an Android app

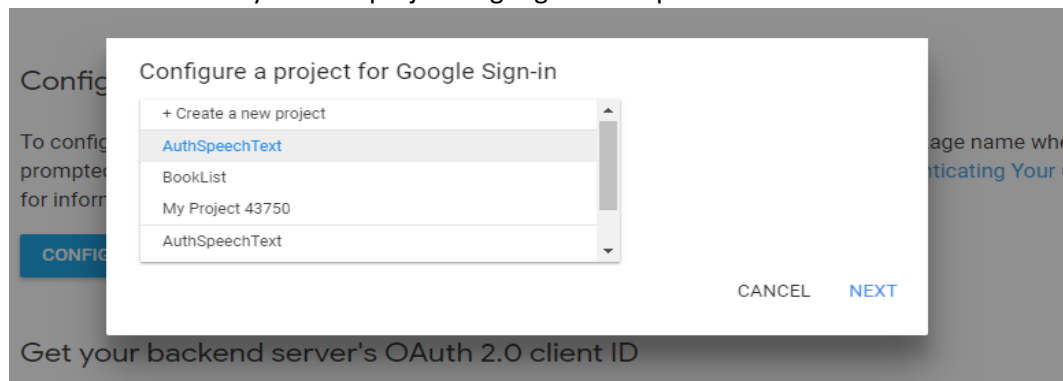
1. In your Android project Add internet permission
<uses-permission android:name="android.permission.INTERNET"></uses-permission>
2. Go to google developer console.
<https://console.developers.google.com/apis/dashboard?project=forward-entity-197416&folder&organizationId&duration=PT1H>
3. Create a new Project
give it same name to your android project (Not mandatory).

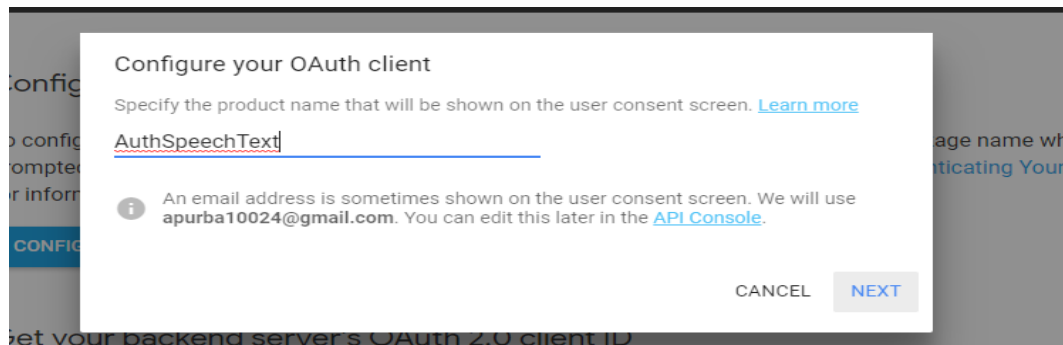


4. After creating the project, go to google sign in official documentation.
<https://developers.google.com/identity/sign-in/android/start-integrating>
5. Then click on the following button

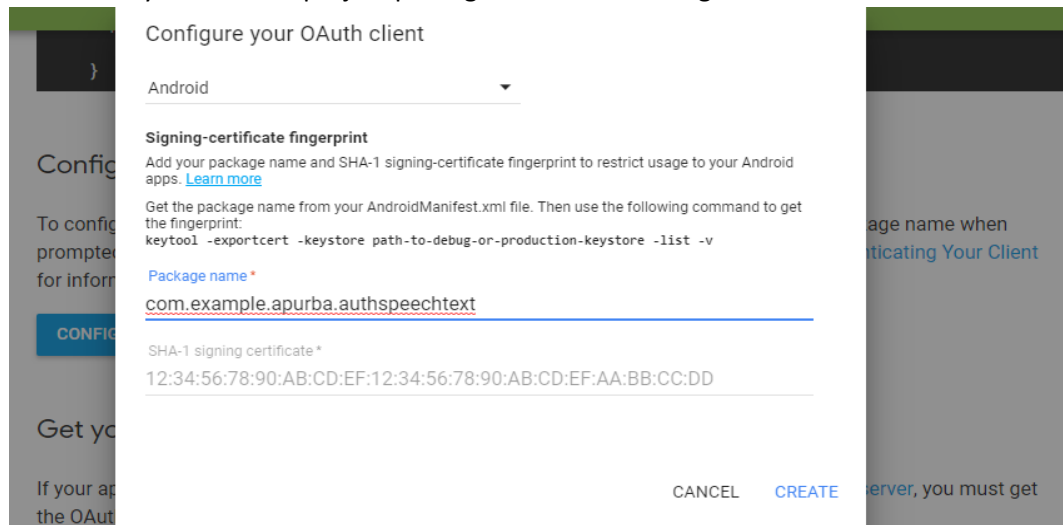


Now select the newly created project in google developer console as follows and click next

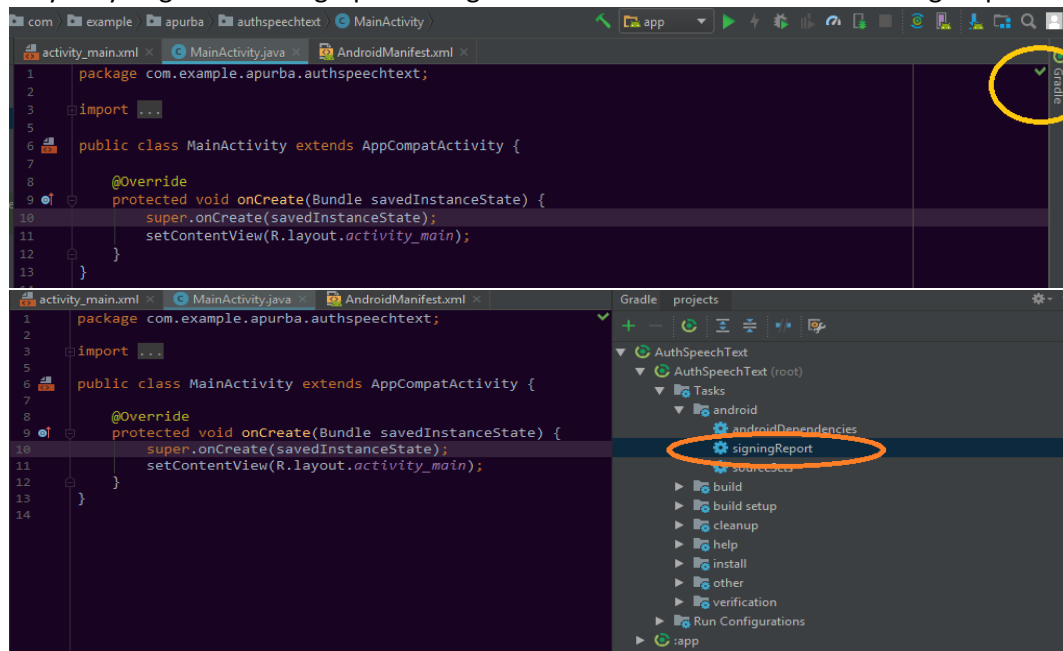




Now Paste your android project package name in following section

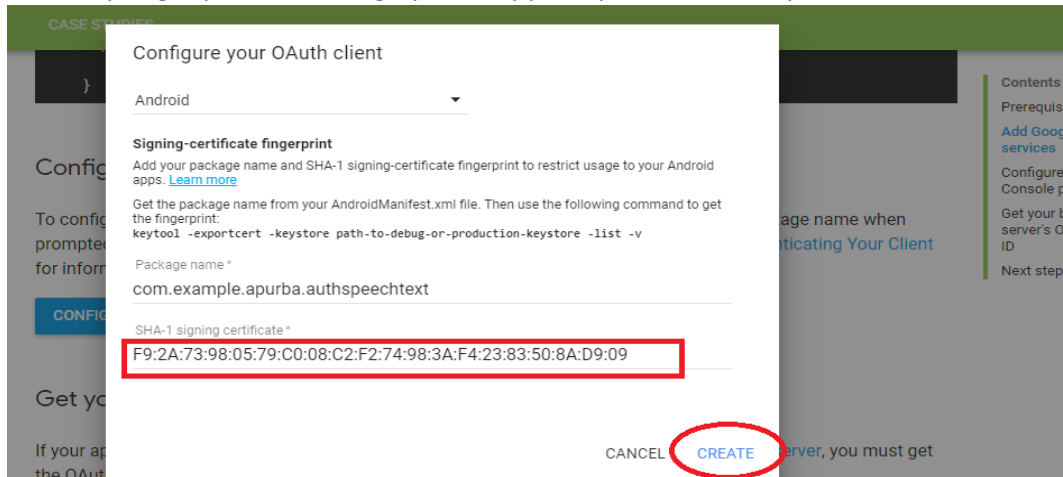


Now you need to create your android project SHA-1 fingerprint certificate. You can get your SHA-1 fingerprint in many different way such as "Key tool", "Android debug" e.t.c. But its very easy to get SHA-1 fingerprint using android studio. Follow these following steps.

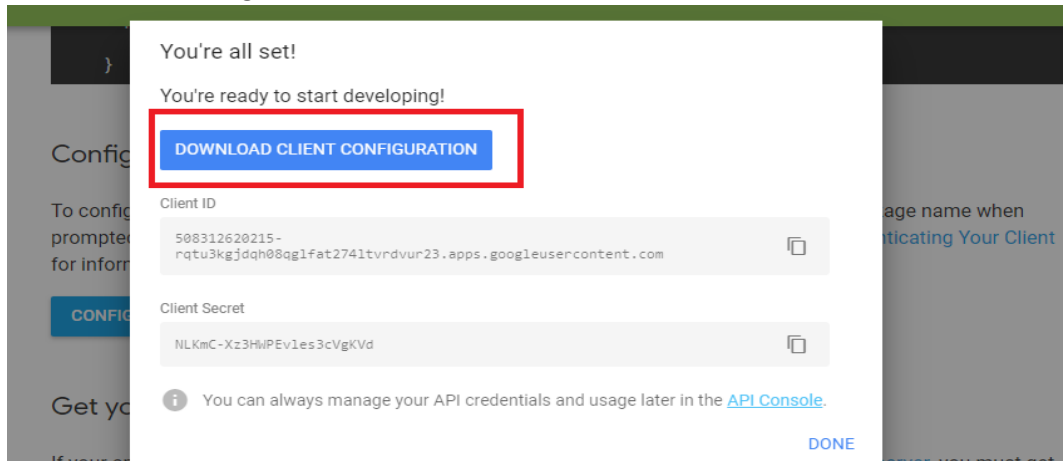


```
com.example.apurba.authspeechtext (test)
generatedJava
res
Gradle Scripts
AuthSpeechText [signingReport] x
Config: debug
Store: C:\Users\Apurba\.android\debug.keystore
Alias: AndroidDebugKey
MD5: 19:10:E2:56:0E:61:B5:73:2A:E7:C1:BC:51:9F:83:52
SHA1: F9:2A:73:98:05:79:C0:08:C2:F2:74:98:3A:F4:23:83:50:8A:D9:09
Valid until: Sunday, January 3, 2049
-----
Variant: debug
Config: debug
Store: C:\Users\Apurba\.android\debug.keystore
Alias: AndroidDebugKey
MD5: 19:10:E2:56:0E:61:B5:73:2A:E7:C1:BC:51:9F:83:52
SHA1: F9:2A:73:98:05:79:C0:08:C2:F2:74:98:3A:F4:23:83:50:8A:D9:09
Valid until: Sunday, January 3, 2049
-----
BUILD SUCCESSFUL in 0s
1 actionable task: 1 executed
3:47:29 PM: Task execution finished 'signingReport'.
```

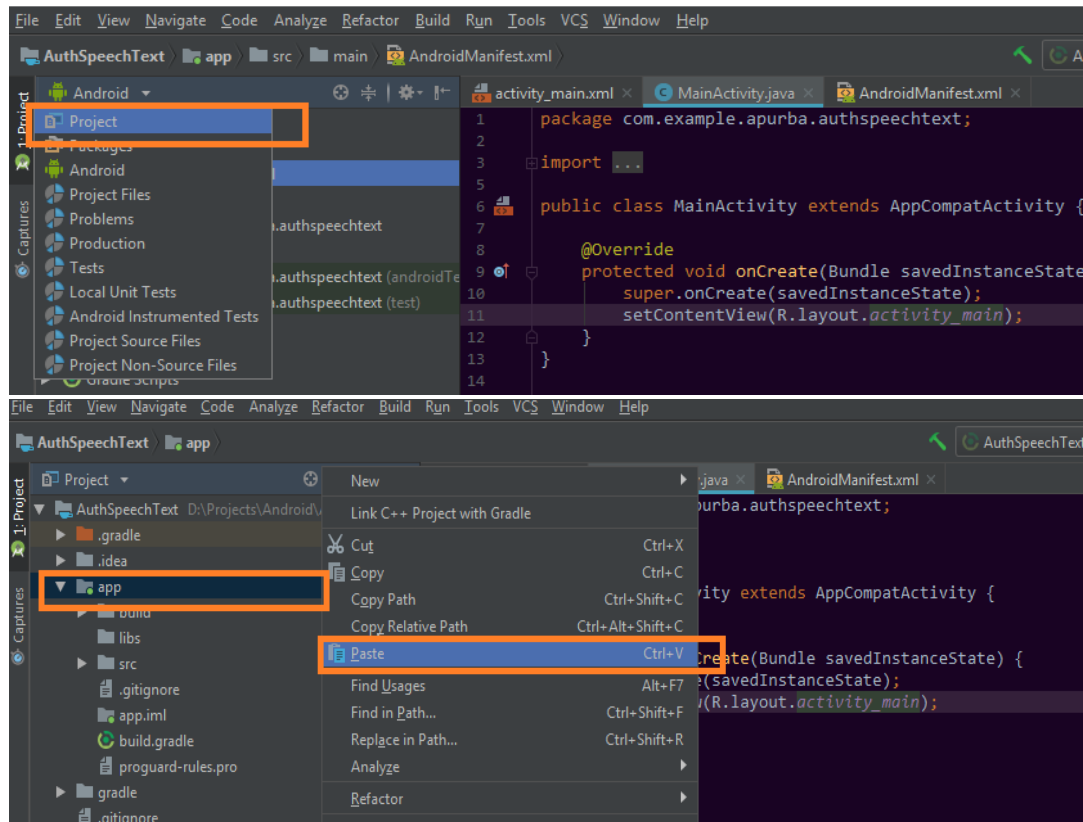
Ok now you got your SHA-1 fingerprint, copy and paste it on that previous section



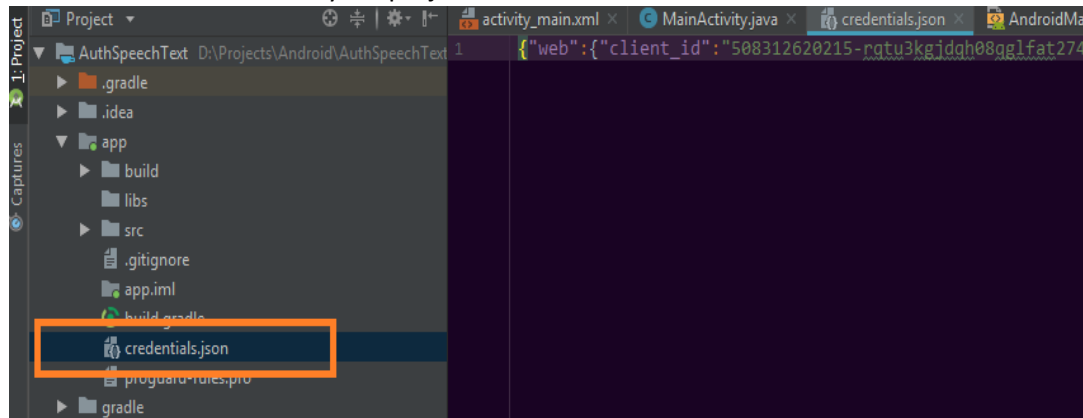
Download the configuration file



6. After downloading the "XXX.json" file you need to add it to your android project. Do it as follows.(NOTE: When you add the json file in your project it must be named as " google-services.json").

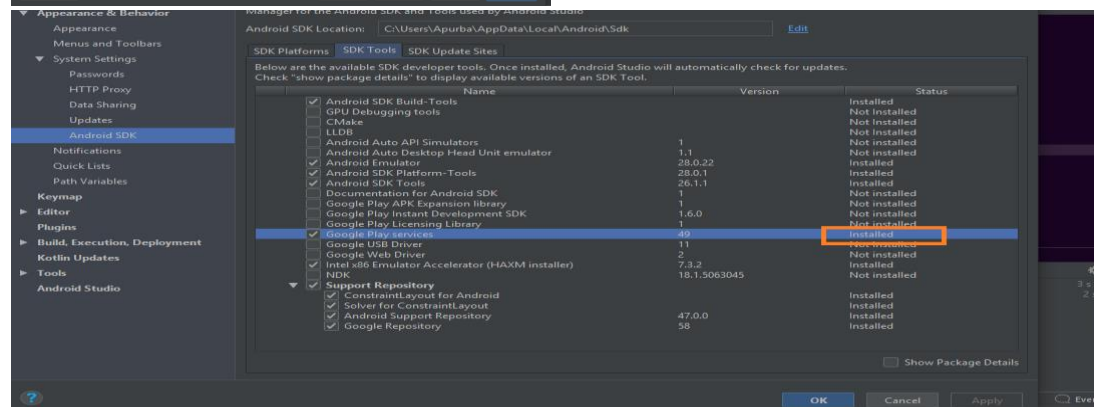
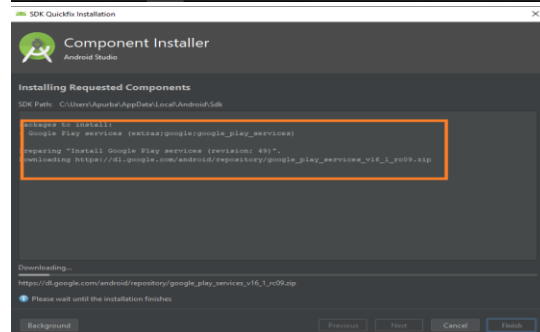
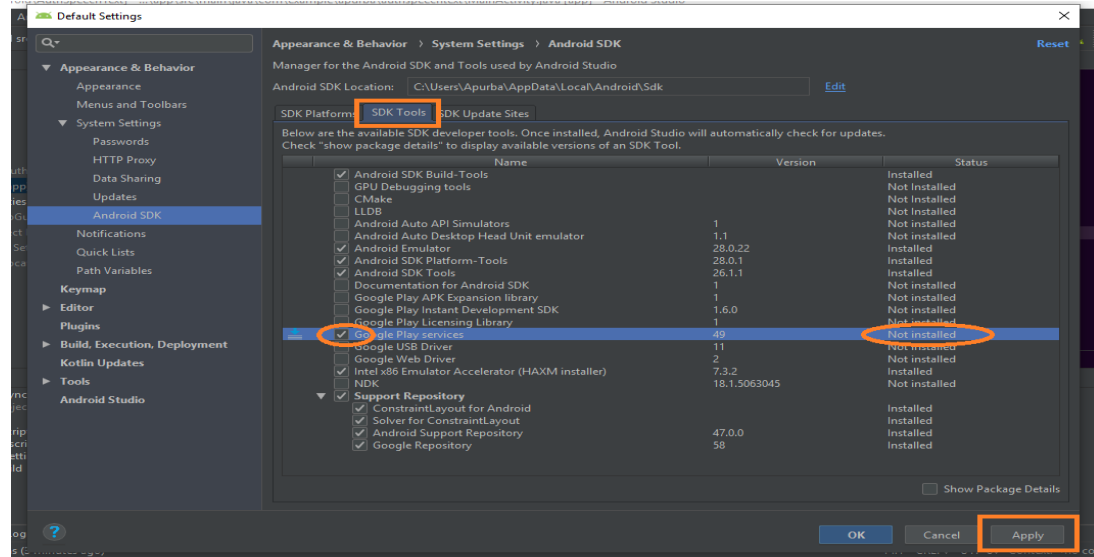
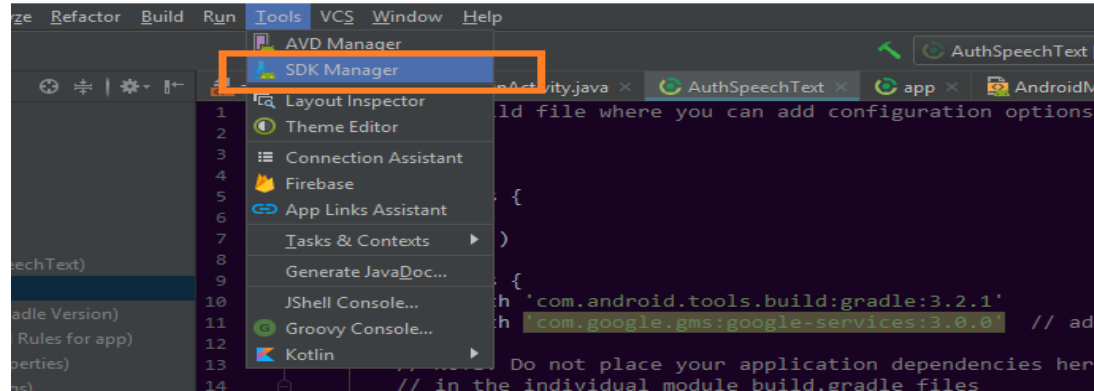


Now the file is available in your project.



7. To enable google sign in you need to add some dependencies in your project. First make sure "google play service" is installed in your project, to check this follow the step below.

uthSpeechText] - AuthSpeechText - Android Studio



Now google play service is installed in your project. Now add some dependencies.
Go to <https://developers.google.com/identity/sign-in/android/start-integrating> to see latest instruction in the bellow section.

Add Google Play services

In your project's top-level `build.gradle` file, ensure that Google's Maven repository is included:

```
allprojects {
    repositories {
        google()

        // If you're using a version of Gradle lower than 4.1, you must instead use:
        // maven {
        //     url 'https://maven.google.com'
        // }
    }
}
```

Then, in your app-level `build.gradle` file, declare Google Play services as a dependency:

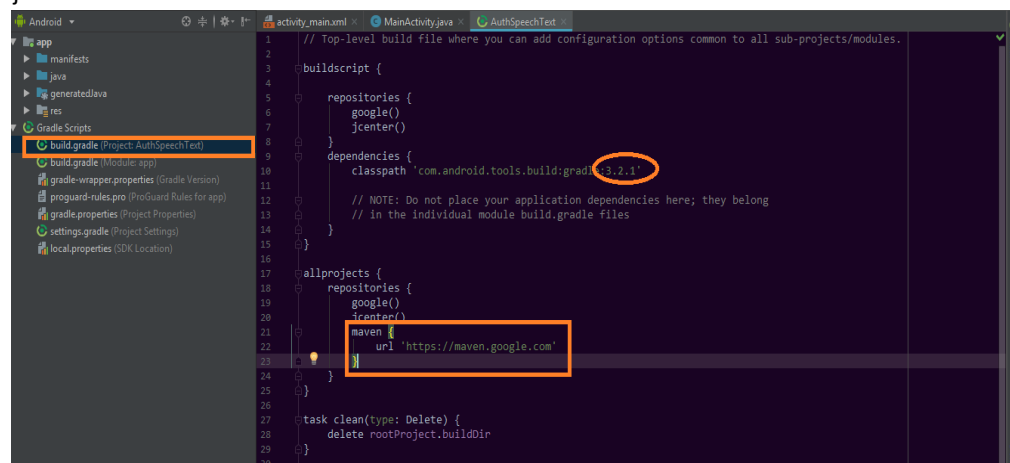
```
apply plugin: 'com.android.application'
...

dependencies {
    compile 'com.google.android.gms:play-services-auth:15.0.1'
}
```

Prerequisite:
Add Google
services
Configure
Console |
Get your
server's C
ID
Next step

In your Project level `build.gradle` file add following line

```
allprojects {
    repositories {
        google()
        // If you're using a version of Gradle lower than 4.1, you must instead use:
        // maven {
        //     url 'https://maven.google.com'
        // }
    }
}
```



In your app level `build.gradle` file add following line

```
dependencies {
    implementation 'com.google.android.gms:play-services-auth:16.0.1'
}
```

8. Now you are ready to use google paly service. Continue from CS 193A User Login slide Sign-In button (optional) – page 9 ([Link](#))

Done.