**LOGIN WITH SOCIAL NETWORKS**

1. FACEBOOK:
2. **Step 1:**

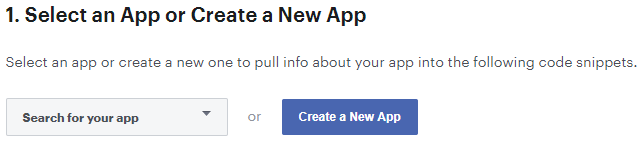
Open Android Studio and create a project Empty Activity and set name “LoginWithSocialNetworks”

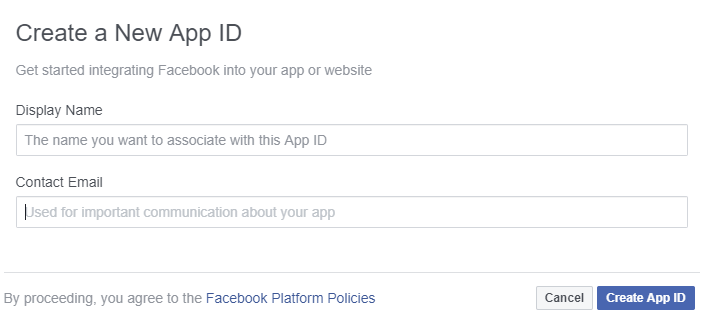
The package name of the project is: ***com.example.loginwithsocialnetworks***

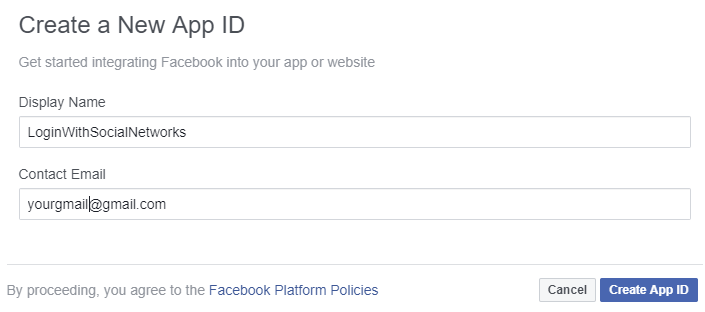
1. **Step 2:**

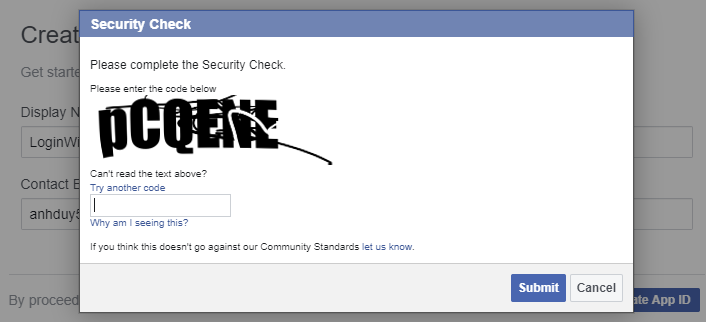
Open this link: <https://developers.facebook.com/docs/facebook-login/android/>

Click on “Create a New App” button

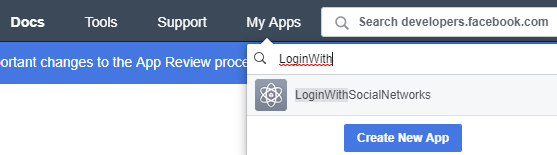




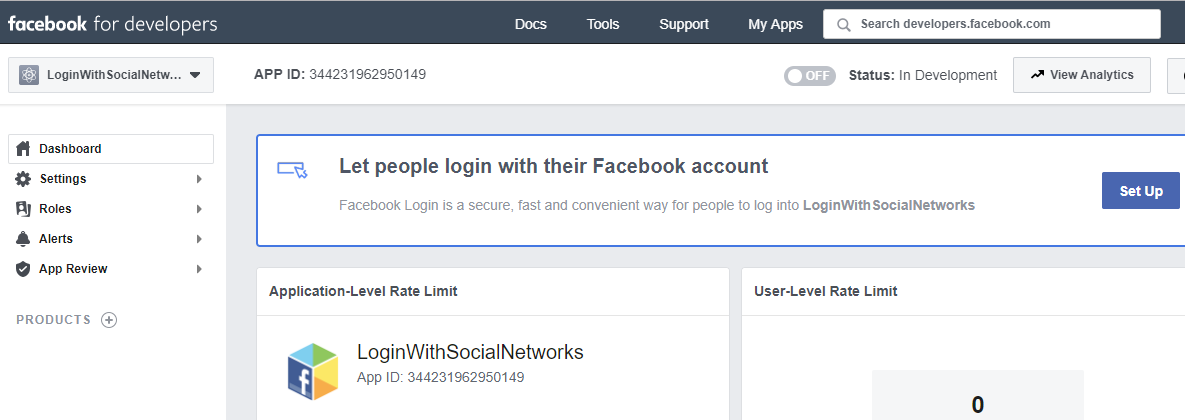




After submit, you refresh this page and you will see your new app at here

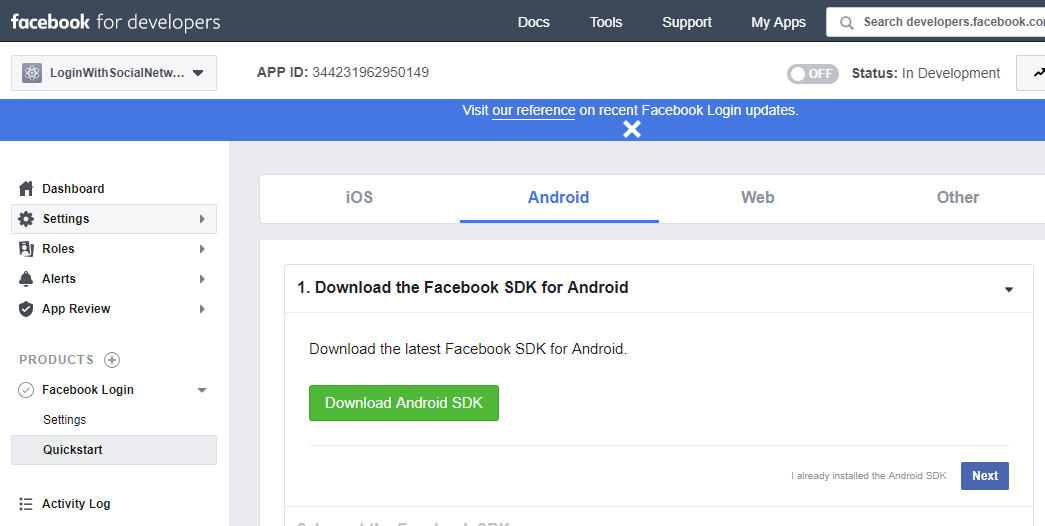


1. **Step 3:** Open your Facebook App by click on app name



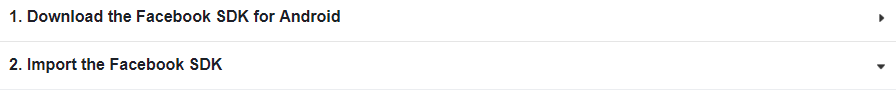
Click on “Set Up” button.

Or Click on “Quickstart”

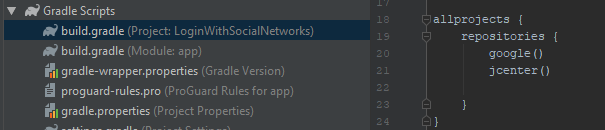


Skip “Download the facebook SDK”, click Next

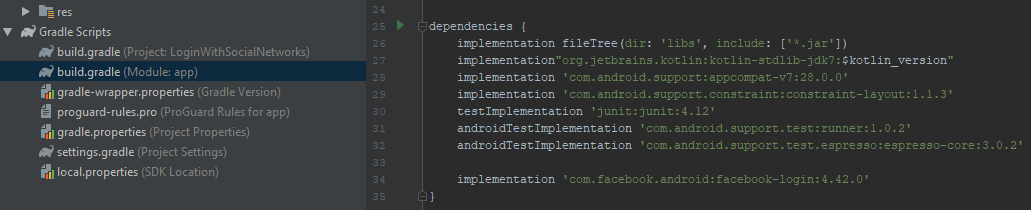
1. **Step 4:** Integrate the Facebook SDK



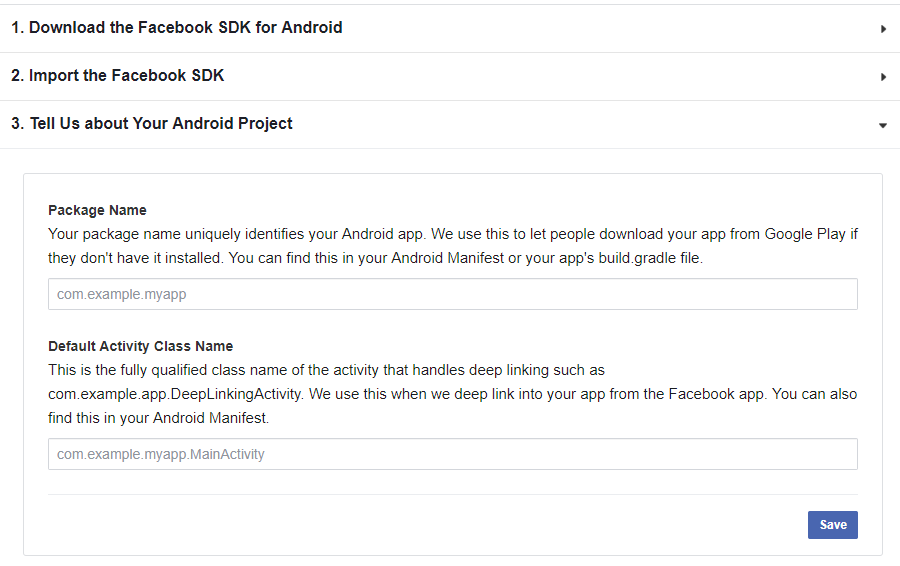
Add jCenter() to build.gradle (Project)



In build.gradle (Module: app) -> implementation 'com.facebook.android:facebook-login:[5,6)'

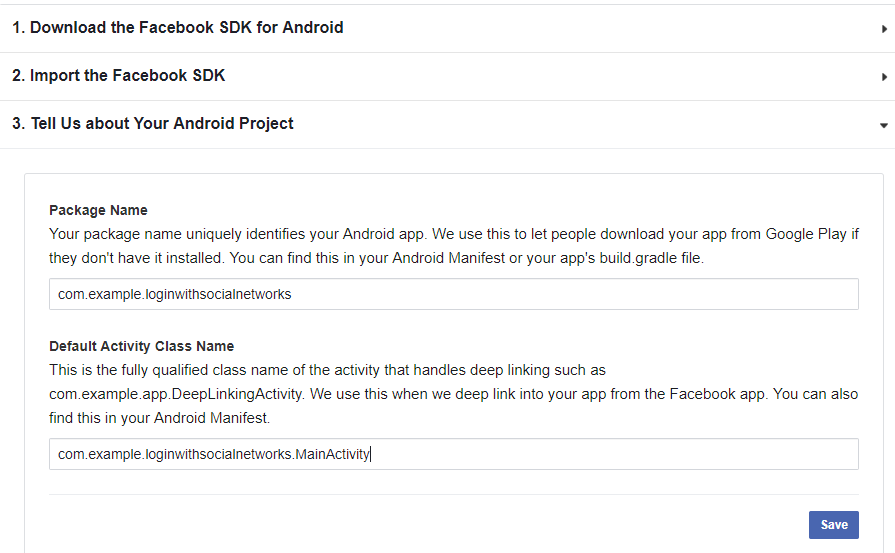


1. **Step 5:** Input Package Name and Default Activity Class Name

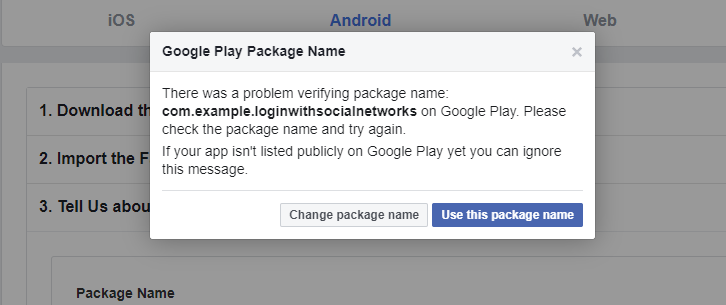


Package Name, we can get from AndroidManifest.xml.

Default Activity class name: We haven’t implemented deep link yet, so we can use default activity

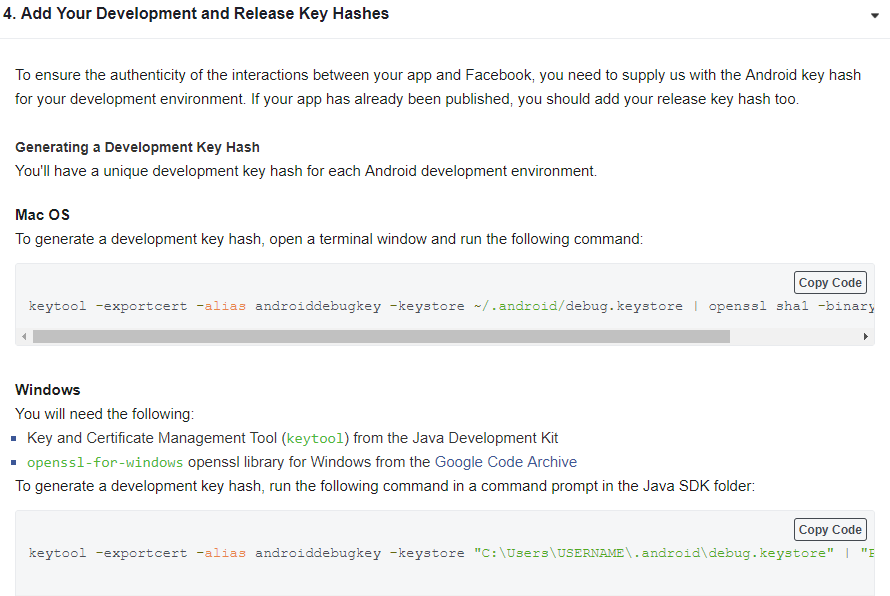


Click “Save”: You will see an alert dialog -> select “Use this package name”

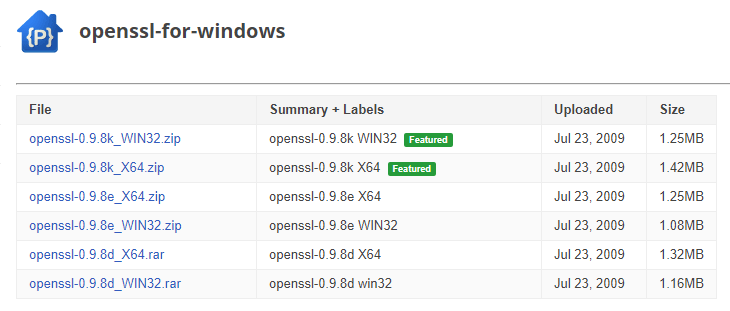


Click “Continue”

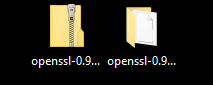
1. **Step 6:** Generating Debug Key Hash and Release Key Hash



* Download openssl-for-windows: <https://code.google.com/archive/p/openssl-for-windows/downloads>



After downloading, I copy it to desktop and unzip



* To generate a development key hash, run the following command in a command prompt in the Java SDK folder:

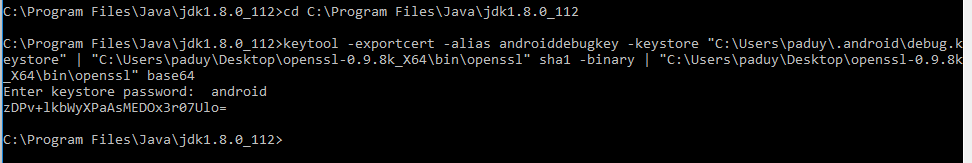
keytool -exportcert -alias androiddebugkey -keystore "C:\Users\USERNAME\.android\debug.keystore" | "PATH\_TO\_OPENSSL\_LIBRARY\bin\openssl" sha1 -binary | "PATH\_TO\_OPENSSL\_LIBRARY\bin\openssl" base64

Open Command Prompt:

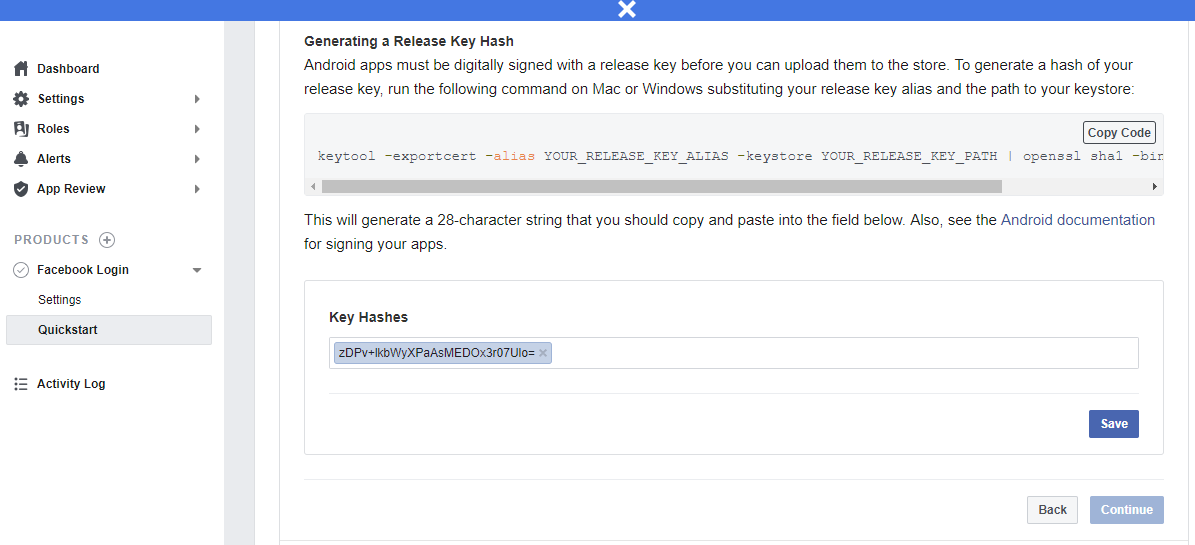
cd C:\Program Files\Java\jdk1.8.0\_112

keytool -exportcert -alias androiddebugkey -keystore "C:\Users\paduy\.android\debug.keystore" | "C:\Users\paduy\Desktop\openssl-0.9.8k\_X64\bin\openssl" sha1 -binary | "C:\Users\paduy\Desktop\openssl-0.9.8k\_X64\bin\openssl" base64

Password: android

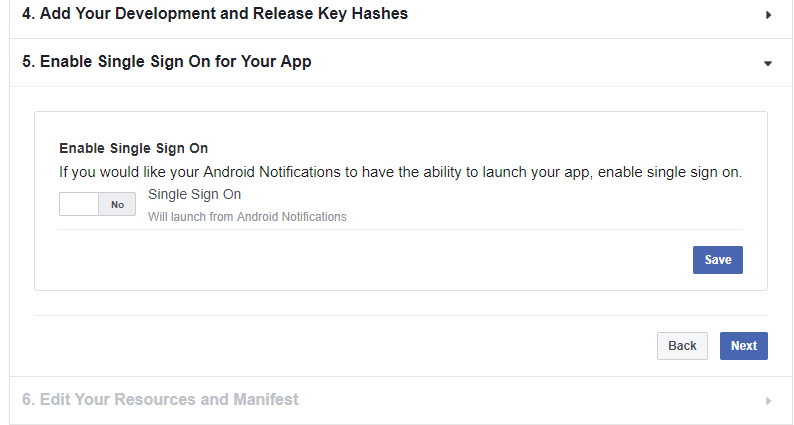


Copy Debug Key Hash and paste Key Hashes box

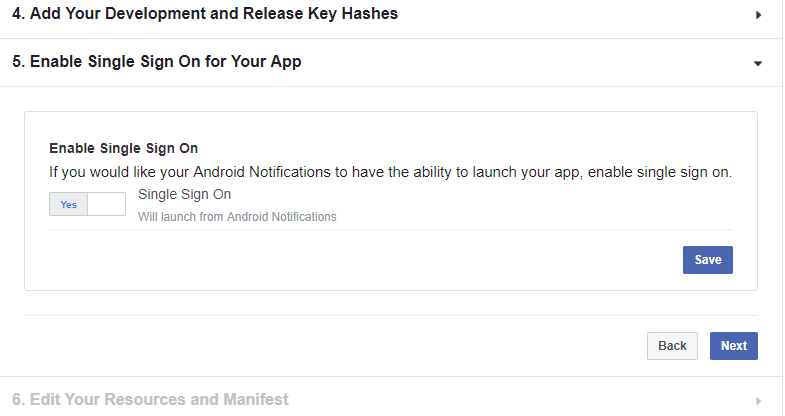


Click “Save”, “Continue”

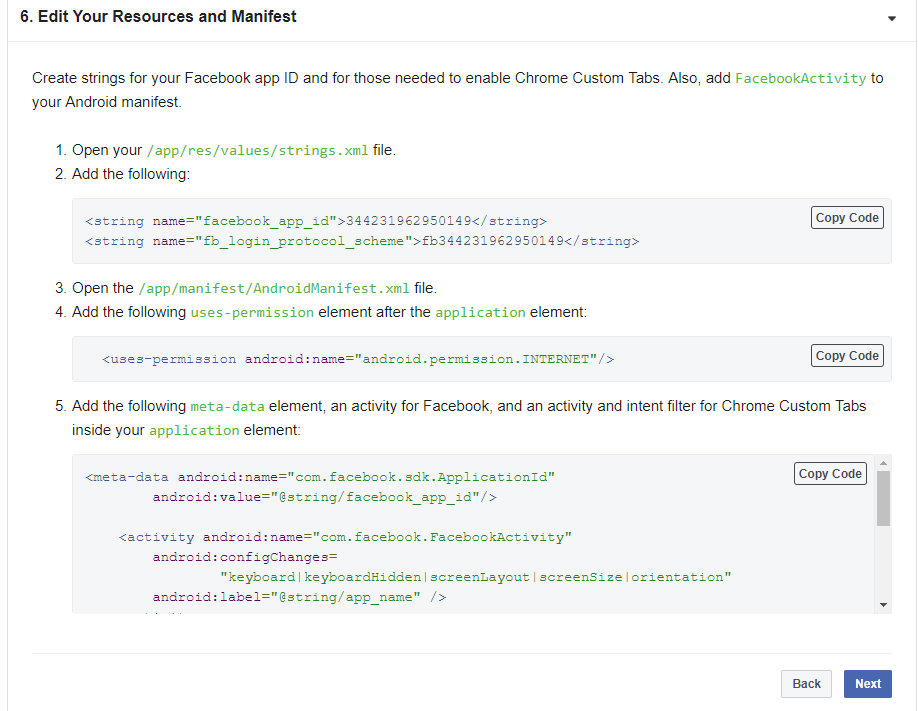
1. **Step 7:** Enable Single Sign On for Your App



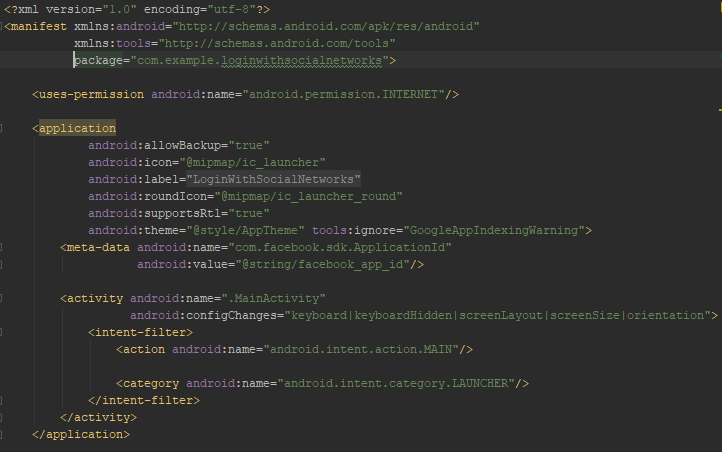
Switch to “Yes”, Click “Save” “Next”



1. **Step 8:** Edit Your Resources and Manifest



Manifest after updating

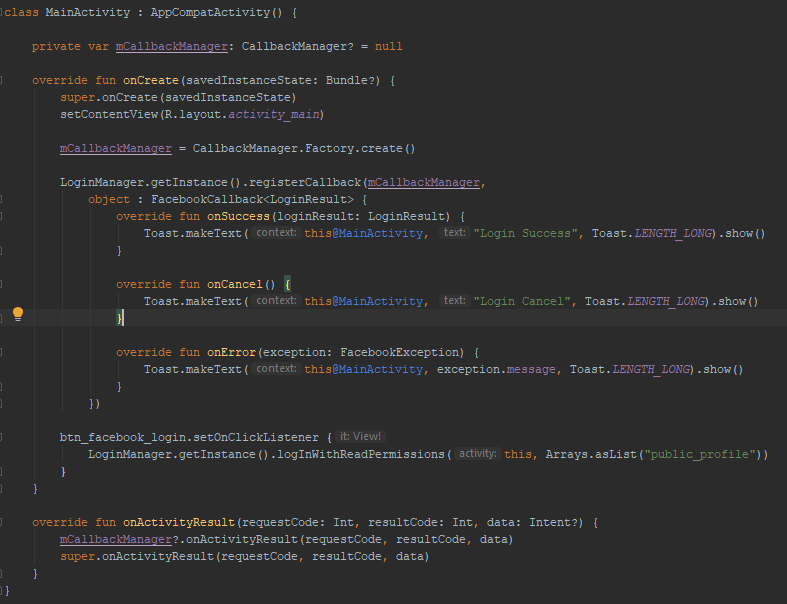


Click “Next”

**Skip 2 steps: Log App Events and Add the Facebook Login Button**

1. **Step 9:** Register a Callback

Create a login button in activity\_main.xml and following guide of Register a Callback. There is code after updating:



Completed code.

1. **Step 10:** Check login status



1. GOOGLE

Following this link: <https://developers.google.com/identity/sign-in/android/start>

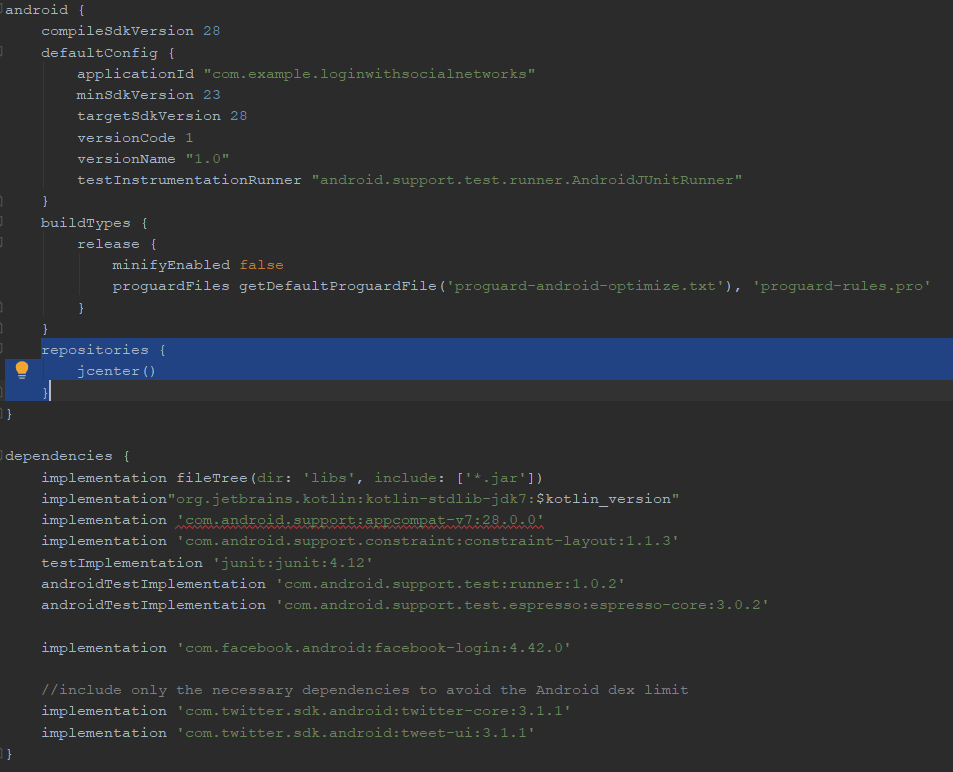
1. TWITTER
2. Register an application on Twitter: <https://developer.twitter.com/en/apps>

After registering success, following the links:

<https://github.com/twitter-archive/twitter-kit-android/wiki/Getting-Started>

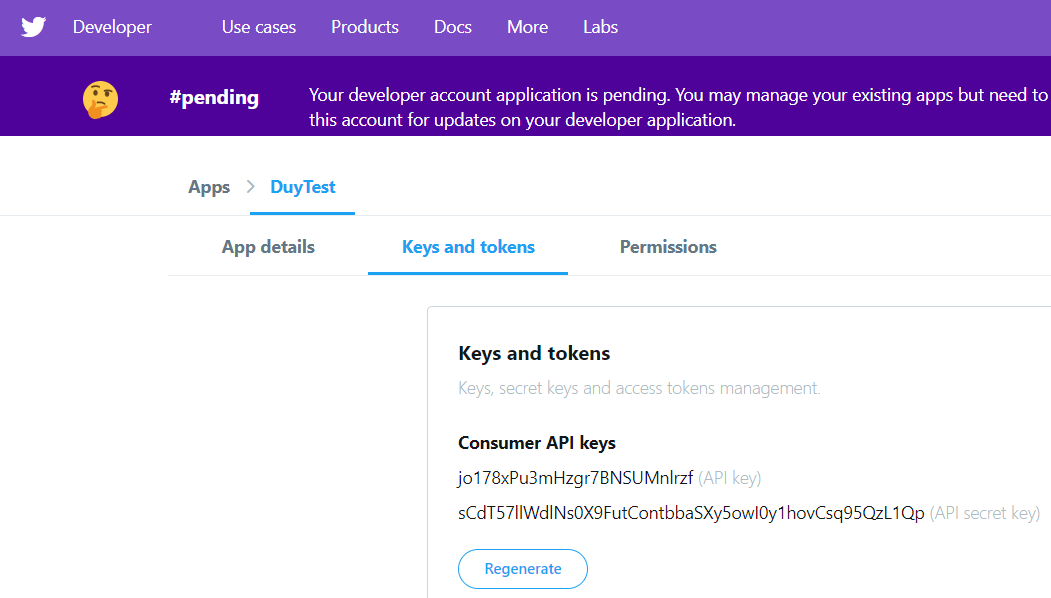
<http://www.androhub.com/android-twitter-integration/>

1. In build.gradle (Module: app)

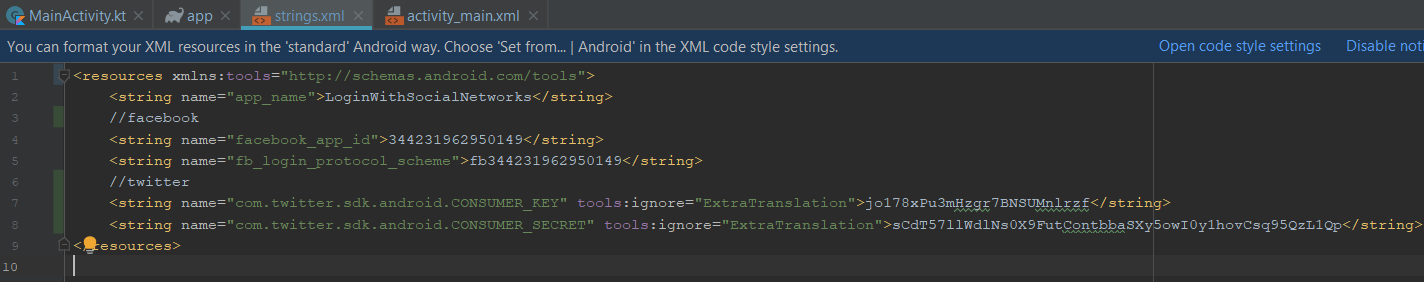


1. Add your API key and secret to string.xml

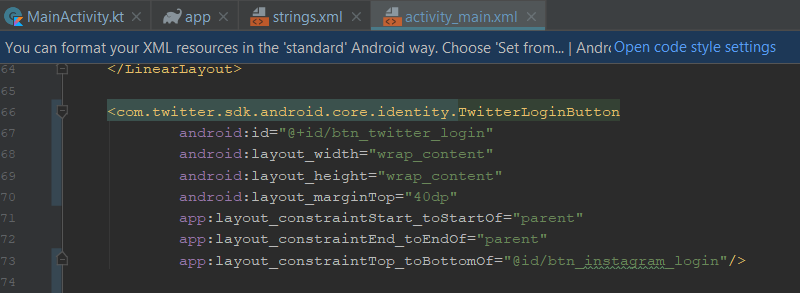
Get API key and secret from your app created



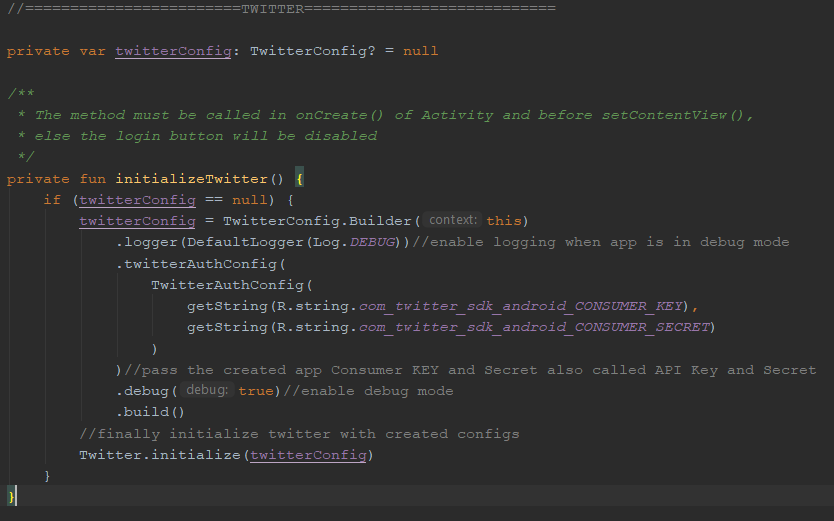
Add them to string.xml

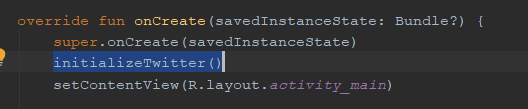


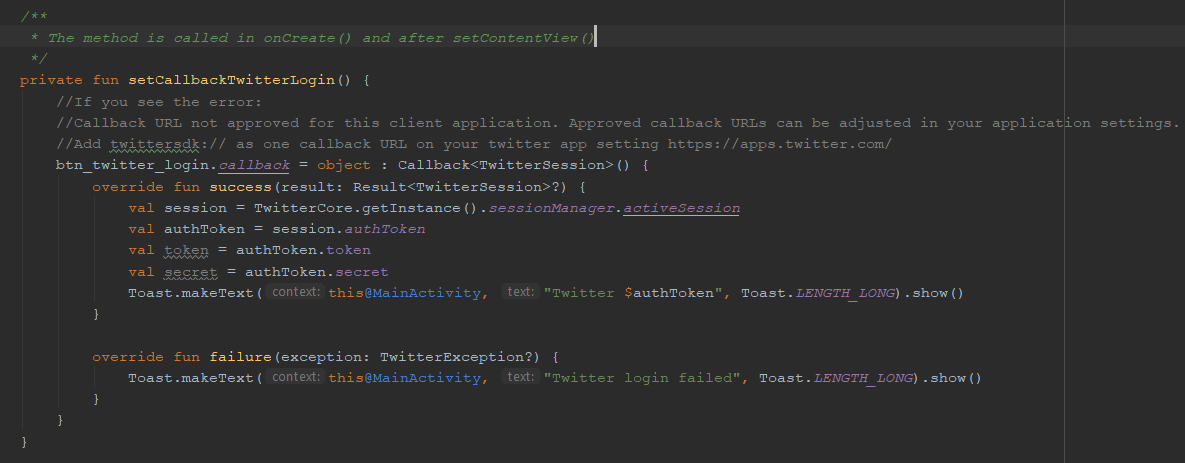
1. Add TwitterLoginButton to activity\_main.xml

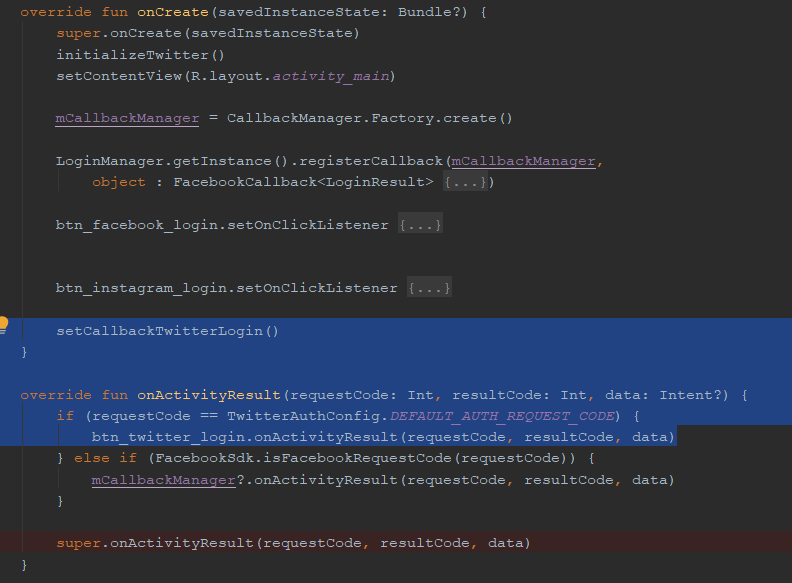


1. In MainActivity:





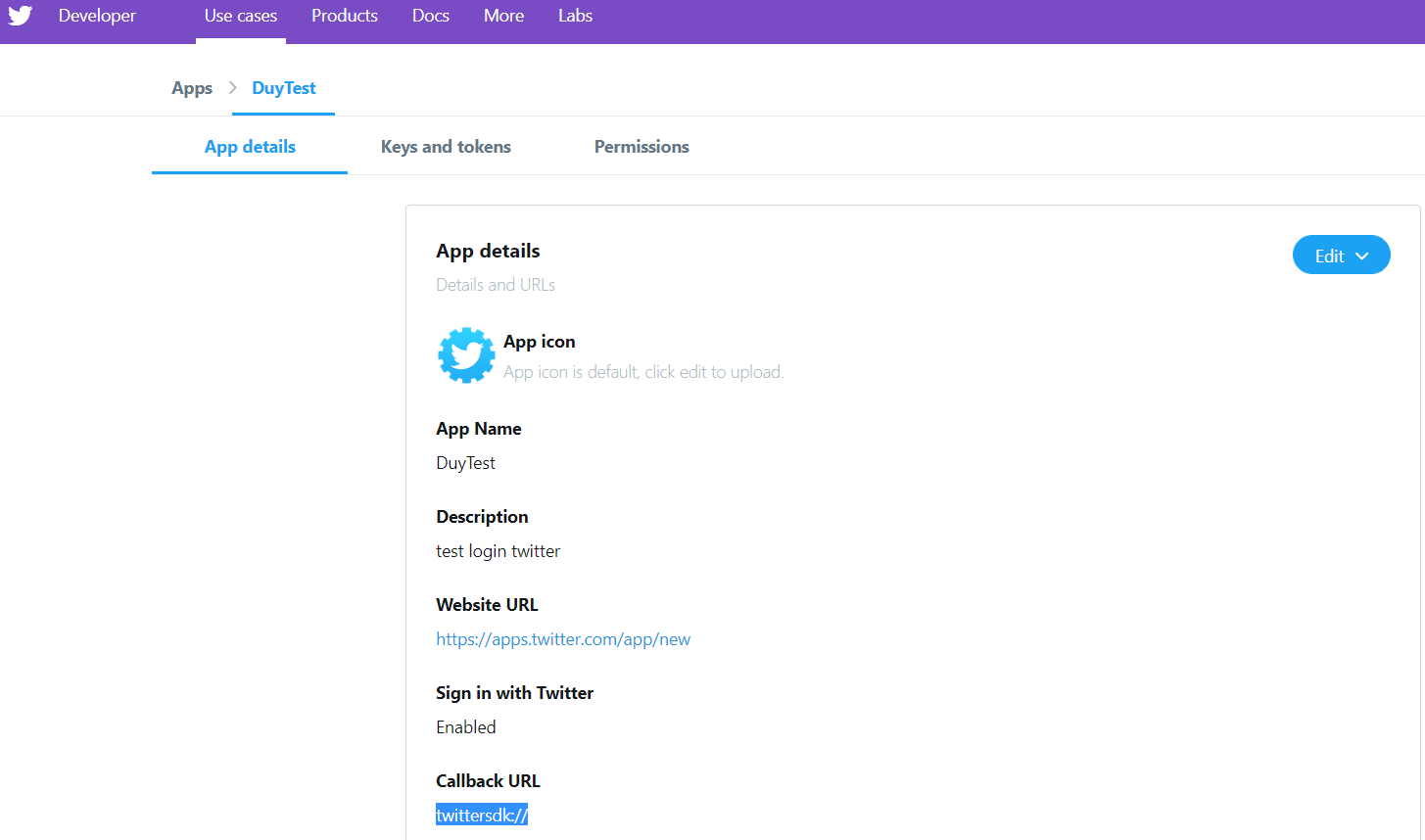




Completed code.

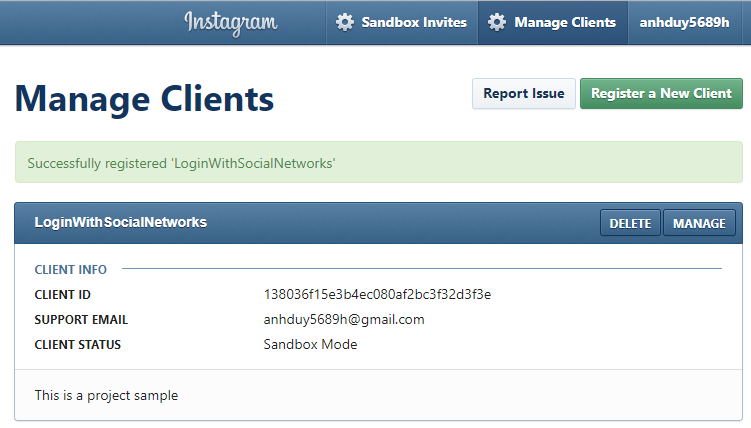
1. Add twittersdk:// as one callback URL on your twitter app setting <https://apps.twitter.com/>

If the app throws an exception: “Callback URL not approved for this client application. Approved callback URLs can be adjusted in your application settings.”



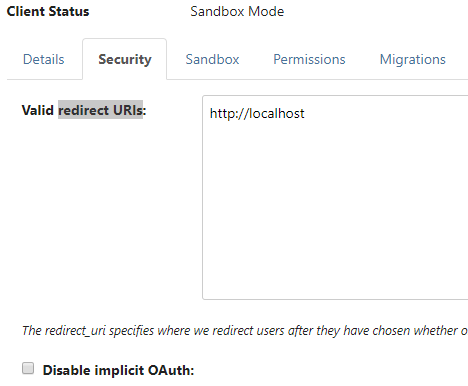
1. INSTAGRAM
2. Register Your Application: <https://www.instagram.com/developer/>

After registering your application, click on “Manage Clients” to register a new Client

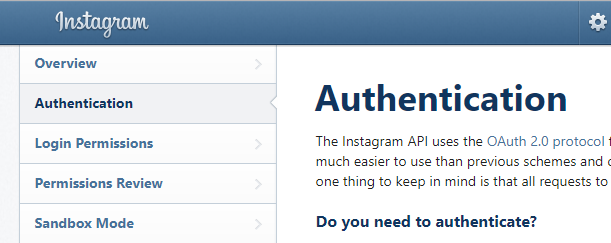


Click “MANAGE”

1. Update Redirect URIs = <http://localhost> , Uncheck “Disable implicit OAuth”



1. Read Authentication



For test: Choose Client-Side (Implicit) Authentication

<https://www.instagram.com/oauth/authorize/?client_id=138036f15e3b4ec080af2bc3f32d3f3e&redirect_uri=http://localhost&scope=public_content&response_type=token>

1. Use android webview to load url above to receive access\_token