FACEBOOK CONNECT STEPS:

**#1 Import library**

build.gradle Module:app

compile 'com.facebook.android:facebook-android-sdk:4.5.0'

**#2 Create Facebook App and get App ID:**

Put the app-id inside strings.xml

<**string name="facebook\_app\_id"**>325693157833584</**string**>

<**string name="fb\_login\_protocol\_scheme"**>325693157833584</**string**>

GET KEY HASH FROM LOG, PUT INTO FACEBOOK APP SETTING:

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

**try** {

PackageInfo info = getPackageManager().getPackageInfo(

**"{YOUR APPLICATION PACKAGE ID}"**,

PackageManager.*GET\_SIGNATURES*);

**for** (Signature signature : info.signatures) {

MessageDigest md = MessageDigest.*getInstance*(**"**SHA**"**);

md.update(signature.toByteArray());

**Log.*d*("KeyHash:", Base64.*encodeToString*(md.digest(), Base64.*DEFAULT*));**

}

} **catch** (Exception ex){

ex.printStackTrace();

}

…

}

**#3 Configure the AndroidManifest.xml**

...

<uses-permission android:name="android.permission.INTERNET"/>

....

<meta-data

android:name="com.facebook.sdk.ApplicationId"

android:value="@string/facebook\_app\_id" />

....

<activity ... />

<intent-filter>

<action android:name="android.intent.action.VIEW" />

<category android:name="android.intent.category.DEFAULT" />

<category android:name="android.intent.category.BROWSABLE" />

<data android:scheme="@string/fb\_login\_protocol\_scheme" />

</intent-filter>

</activity>

....

<activity android:name="com.facebook.FacebookActivity"

android:configChanges="keyboard|keyboardHidden|screenLayout|screenSize|orientation"

android:theme="@android:style/Theme.Translucent.NoTitleBar"

android:label="@string/app\_name" />

**#4 Initialize the Facebook SDK**

**private void** initFacebookTracker(){

FacebookSdk.*sdkInitialize*(**this**);

**callbackManager** = CallbackManager.Factory.*create*();

**accessTokenTracker** = **new** AccessTokenTracker() {

@Override

**protected void** onCurrentAccessTokenChanged(

AccessToken oldAccessToken,

AccessToken currentAccessToken) {

*// Set the access token using*

*// currentAccessToken when it's loaded or set.*

}

};

**accessToken** = AccessToken.*getCurrentAccessToken*();

}

**#5 add the LoginButton (Facebook's ) into UI layout:**

<com.facebook.login.widget.LoginButton

android:id="@+id/facebook\_login\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center\_horizontal"

android:layout\_marginTop="30dp"

android:layout\_marginBottom="30dp"

/>

**#6 Load the button from XML to Java:**

setContentView(R.layout.***activity\_user\_connect***);

LoginButton authButton= (LoginButton) findViewById(R.id.***facebook\_login\_button***);

**#7 Prepare the Event Listener when user login:**

@Override

**public void** onClick(View v) {

**switch** (v.getId())

{

**case** R.id.***facebook\_login\_button***:

**authButton**.setReadPermissions(Arrays.*asList*(**"public\_profile"**,**"email"**));

LoginManager.*getInstance*().registerCallback(**callbackManager**,

**new** FacebookCallback<LoginResult>() {

@Override

**public void** onSuccess(LoginResult loginResult) {

setFacebookData(loginResult);

}

@Override

**public void** onCancel() {

}

@Override

**public void** onError(FacebookException exception) {

}

});

**break**;

}

}

**#8 Activate the CallBack when got result from FacebookActivity:**

@Override

**protected void** onActivityResult(**int** requestCode, **int** resultCode, Intent data) {

**super**.onActivityResult(requestCode, resultCode, data);

**if** (FacebookSdk.*isFacebookRequestCode*(requestCode)) {

**callbackManager**.onActivityResult(requestCode, resultCode, data);

}

}

**#9 Get the Data:**

**private void** setFacebookData(**final** LoginResult loginResult)

{

GraphRequest request = GraphRequest.*newMeRequest*(

loginResult.getAccessToken(),

**new** GraphRequest.GraphJSONObjectCallback() {

@Override

**public void** onCompleted(JSONObject object, GraphResponse response) {

*// Application code*

**try** {

Log.*i*(**"Response"**,response.toString());

String email = response.getJSONObject().getString(**"email"**);

String firstName = response.getJSONObject().getString(**"first\_name"**);

String lastName = response.getJSONObject().getString(**"last\_name"**);

String gender = response.getJSONObject().getString(**"gender"**);

Profile profile = Profile.*getCurrentProfile*();

String id = profile.getId();

String link = profile.getLinkUri().toString();

Log.*i*(**"Link"**,link);

**if** (Profile.*getCurrentProfile*()!=**null**)

{

Log.*i*(**"Login"**, **"ProfilePic"** +

Profile.*getCurrentProfile*().getProfilePictureUri(200, 200));

}

Log.*i*(**"Login "** + **"ID"**, id);

Log.*i*(**"Login"** + **"Email"**, email);

Log.*i*(**"Login"**+ **"FirstName"**, firstName);

Log.*i*(**"Login"** + **"LastName"**, lastName);

Log.*i*(**"Login"** + **"Gender"**, gender);

Intent intent = **new** Intent(getApplicationContext(), MainActivity.**class**);

startActivity(intent);

} **catch** (JSONException e) {

e.printStackTrace();

}

}

});

Bundle parameters = **new** Bundle();

parameters.putString(**"fields"**, **"id,email,first\_name,last\_name,gender"**);

request.setParameters(parameters);

request.executeAsync();