**MainActivity.java**

package com.example.socialmediaintegration;  
  
import androidx.annotation.Nullable;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.util.Log;  
import android.view.View;  
import android.widget.TextView;  
  
import com.facebook.AccessTokenTracker;  
import com.facebook.CallbackManager;  
import com.facebook.FacebookCallback;  
import com.facebook.FacebookException;  
import com.facebook.GraphRequest;  
import com.facebook.GraphResponse;  
import com.facebook.internal.ImageRequest;  
import com.facebook.login.LoginResult;  
import com.facebook.login.widget.LoginButton;  
import com.google.android.gms.auth.api.signin.GoogleSignIn;  
import com.google.android.gms.auth.api.signin.GoogleSignInAccount;  
import com.google.android.gms.auth.api.signin.GoogleSignInClient;  
import com.google.android.gms.auth.api.signin.GoogleSignInOptions;  
import com.google.android.gms.common.SignInButton;  
import com.google.android.gms.common.api.ApiException;  
import com.google.android.gms.tasks.Task;  
  
import org.json.JSONException;  
import org.json.JSONObject;  
  
public class MainActivity extends AppCompatActivity {  
 private TextView text;  
 private LoginButton login;  
 AccessTokenTracker t;  
 private CallbackManager;  
 private String firstname,lastname,name,email,birthday,gender;  
 GoogleSignInClient mGoogleSignInClient;  
 private static int *RC\_SIGN\_IN* = 100;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 text= (TextView) findViewById(R.id.*textView6*);  
 login = (LoginButton) findViewById(R.id.*login\_button*);  
 login.setPermissions("email","public\_profile", "user\_birthday","user\_posts");  
 callbackManager = CallbackManager.Factory.*create*();  
  
 FacebookCallback<LoginResult> callback = new FacebookCallback<LoginResult>() {  
 @Override  
 public void onSuccess(LoginResult loginResult) {  
  
 GraphRequest request = GraphRequest.*newMeRequest*(loginResult.getAccessToken(), new GraphRequest.GraphJSONObjectCallback() {  
 @Override  
 public void onCompleted(JSONObject object, GraphResponse response) {  
 try {  
 String id = object.getString("id");  
 String imageurl = ImageRequest.*getProfilePictureUri*(object.optString("id"), 60, 60).toString();  
 if (object.has("first\_name"))  
 firstname = object.getString("first\_name");  
 if (object.has("last\_name"))  
 lastname = object.getString("last\_name");  
  
 if (object.has("email"))  
 email = object.getString("email");  
 if (object.has("birthday"))  
 birthday = object.getString("birthday");  
 if (object.has("gender"))  
 gender = object.getString("gender");  
  
 name=firstname+" "+lastname;  
  
 Intent main = new Intent(MainActivity.this, Login2.class);  
 main.putExtra("name", name);  
 main.putExtra("email",email);  
 main.putExtra("id",id);  
 main.putExtra("imageUrl", imageurl);  
 startActivity(main);  
 finish();  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 }  
 });  
 Bundle parameters = new Bundle();  
 parameters.putString("fields", "id, first\_name, last\_name, email, birthday, gender");  
 request.setParameters(parameters);  
 request.executeAsync();  
 }  
  
 @Override  
 public void onCancel() {  
 }  
  
 @Override  
 public void onError(FacebookException e) {  
 e.printStackTrace();  
 }  
 };  
  
 login.registerCallback(callbackManager, callback);  
 GoogleSignInOptions gso = new GoogleSignInOptions.Builder(GoogleSignInOptions.*DEFAULT\_SIGN\_IN*)  
 .requestEmail()  
 .build();  
 mGoogleSignInClient = GoogleSignIn.*getClient*(this, gso);  
 *//GoogleSignInAccount account = GoogleSignIn.getLastSignedInAccount(this);* SignInButton = (SignInButton) findViewById(R.id.*sign\_in\_button*);  
 signInButton.setSize(SignInButton.*SIZE\_STANDARD*);  
 signInButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 signIn();  
 }  
 });  
 }  
  
 @Override  
 public void onActivityResult(int requestCode, int resultCode, Intent data) {  
 super.onActivityResult(requestCode, resultCode, data);  
  
 *GoogleSignInClient.getSignInIntent(...);* if (requestCode == *RC\_SIGN\_IN*) {  
 Task<GoogleSignInAccount> task = GoogleSignIn.*getSignedInAccountFromIntent*(data);  
 handleSignInResult(task);  
 } else {  
 callbackManager.onActivityResult(requestCode, resultCode, data);  
 super.onActivityResult(requestCode, resultCode, data);  
 *//mCallbackManager.onActivityResult(requestCode, resultCode, data);* }  
 }  
  
 private void signIn() {  
 Intent signInIntent = mGoogleSignInClient.getSignInIntent();  
 startActivityForResult(signInIntent, *RC\_SIGN\_IN*);  
 }  
  
  
 private void handleSignInResult(Task<GoogleSignInAccount> completedTask) {  
 try {  
 GoogleSignInAccount accountt = completedTask.getResult(ApiException.class);  
 GoogleSignInAccount acct = GoogleSignIn.*getLastSignedInAccount*(this);  
 if (acct != null) {  
 String personName = acct.getDisplayName();  
 String personGivenName = acct.getGivenName();  
 *//String personFamilyName = acct.getFamilyName();* String personEmail = acct.getEmail();  
 *//String personId = acct.getId();* Uri personPhoto = acct.getPhotoUrl();  
 }  
 startActivity(new Intent(MainActivity.this, Login.class));  
 *// Signed in successfully, show authenticated UI.* } catch (ApiException e) {  
 *// The ApiException status code indicates the detailed failure reason.  
 // Please refer to the GoogleSignInStatusCodes class reference for more information.* Log.*d*("message", e.toString());  
 }  
 }  
}

**LogIn.java**

package com.example.socialmediaintegration;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.ImageView;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.bumptech.glide.Glide;  
import com.google.android.gms.auth.api.signin.GoogleSignIn;  
import com.google.android.gms.auth.api.signin.GoogleSignInAccount;  
import com.google.android.gms.auth.api.signin.GoogleSignInClient;  
import com.google.android.gms.auth.api.signin.GoogleSignInOptions;  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.Task;  
  
public class Login extends AppCompatActivity {  
TextView name, email;  
  
  
 GoogleSignInClient mGoogleSignInClient;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login*);  
 name = (TextView)findViewById(R.id.*textView*);  
 email = (TextView)findViewById(R.id.*textView2*);  
 GoogleSignInOptions gso = new GoogleSignInOptions.Builder(GoogleSignInOptions.*DEFAULT\_SIGN\_IN*)  
 .requestEmail()  
 .build();  
 mGoogleSignInClient = GoogleSignIn.*getClient*(this, gso);  
 Button signout = (Button)findViewById(R.id.*button*);  
 signout.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 signOut();  
 }  
 });  
 GoogleSignInAccount acct = GoogleSignIn.*getLastSignedInAccount*(this);  
 if (acct != null) {  
 String personName = acct.getDisplayName();  
 *//String personGivenName = acct.getGivenName();  
 //String personFamilyName = acct.getFamilyName();* String personEmail = acct.getEmail();  
 *//String personId = acct.getId();* Uri personPhoto = acct.getPhotoUrl();  
 name.setText(personName);  
 email.setText(personEmail);  
  
 ImageView pic = (ImageView) findViewById(R.id.*imageView*);  
 Glide.*with*(this).load(String.*valueOf*(personPhoto)).into(pic);  
 }  
 }  
 private void signOut() {  
 mGoogleSignInClient.signOut().addOnCompleteListener(this, new OnCompleteListener<Void>() {  
 @Override  
 public void onComplete(@NonNull Task<Void> task) {  
 Toast.*makeText*(LogIn.this,"signed out",Toast.*LENGTH\_SHORT*).show();  
 finish();  
 }  
 });  
 }  
  
}

**LogIn2.java**

package com.example.socialmediaintegration;  
  
  
 import androidx.annotation.RequiresApi;  
 import androidx.appcompat.app.AppCompatActivity;  
 import android.annotation.SuppressLint;  
 import android.content.Intent;  
 import android.os.Build;  
 import android.os.Bundle;  
 import android.view.View;  
 import android.widget.Button;  
 import android.widget.ImageView;  
 import android.widget.TextView;  
 import com.bumptech.glide.Glide;  
 import com.facebook.AccessToken;  
 import com.facebook.GraphRequest;  
 import com.facebook.GraphResponse;  
 import com.facebook.HttpMethod;  
 import com.facebook.login.LoginManager;  
  
  
  
public class Login2<logout> extends AppCompatActivity {  
 private Button logout;  
 private ImageView ivprofile;  
 private TextView tvname;  
 private String imageurl;  
 private TextView tvemail;  
 private TextView tvidnumber;  
 private String name;  
 private String email;  
 private String idnumber;  
  
  
 @SuppressLint("CheckResult")  
 @RequiresApi(api = Build.VERSION\_CODES.*LOLLIPOP*)  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login2*);  
 Bundle ibundle = getIntent().getExtras();  
 name = ibundle.getString("name");  
 email = ibundle.getString("email");  
 idnumber = ibundle.getString("id");  
 imageurl = ibundle.getString("imageurl");  
  
 tvname = (TextView) findViewById(R.id.*textView*);  
 tvidnumber = (TextView) findViewById(R.id.*textView2*);  
 tvemail = (TextView) findViewById(R.id.*textView4*);  
  
 tvname.setText(name);  
 tvemail.setText(email);  
 tvidnumber.setText(idnumber);  
  
 ivprofile = (ImageView) findViewById(R.id.*imageView*);  
  
 Bundle params = new Bundle();  
 params.putBoolean("redirect", false);  
 params.putString("type", "large");  
  
 new GraphRequest(  
 AccessToken.*getCurrentAccessToken*(),  
 "me/picture",  
 params,  
 HttpMethod.*GET*,  
 new GraphRequest.Callback() {  
 public void onCompleted(GraphResponse response) {  
  
 try {  
 String str\_facebookimage = (String) response.getJSONObject().getJSONObject("data").get("url");  
  
 Glide.*with*(Login2.this).load(str\_facebookimage).skipMemoryCache(true).into(ivprofile);  
  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
  
 }  
 }  
 ).executeAsync();  
  
 logout = (Button) findViewById(R.id.*button*);  
 logout.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 LoginManager.*getInstance*().logOut();  
 Intent intent = new Intent(LogIn2.this, MainActivity.class);  
 startActivity(intent);  
 finish();  
  
  
 }  
 });  
 }  
}