

Firebase: របៀបធ្វើ Login ជាមួយនឹង Google និង Facebook

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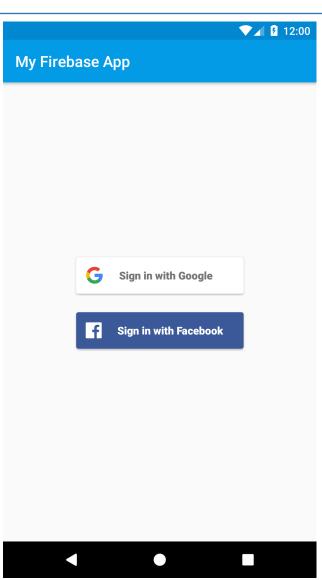
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Sign In ជាមួយនឹង Google & Firebook

- នាពេលបច្ចុប្បន្ននេះ វែបសាយភាគច្រើនគឺទទួលការ វាយឡុកអោយ Hacker។ ដូច្នេះហើយ App ភាគ ច្រើនគឺតែងតែងអោយយើង Sign In តាមរយៈ Google និង Facebook ផងដែរ។
- ម៉្យាងទៀត ពេលដែលយើងធ្វើបែបនេះ គឺសំរួលដល់ user មិនបាច់ត្រូវចុះឈ្មោះច្រើនដង ព្រោះអីនាពេល បច្ចុប្បន្ននេះ អ្នកណាក៏មាន Gmail និង Facebook ផង។





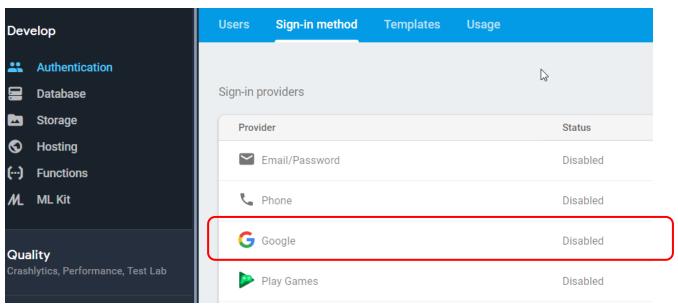
របៀប Sign In ដោយប្រើ Google

1. ដាក់ dependency google_sign_in៖

```
dependencies:
 google_sign_in: ^4.5.1
```

សូមមើល version ក្នុង៖ https://pub.dev/packages/google-sign in

2. ប៊េីក option Google ក្នុង Firebase Authentication៖

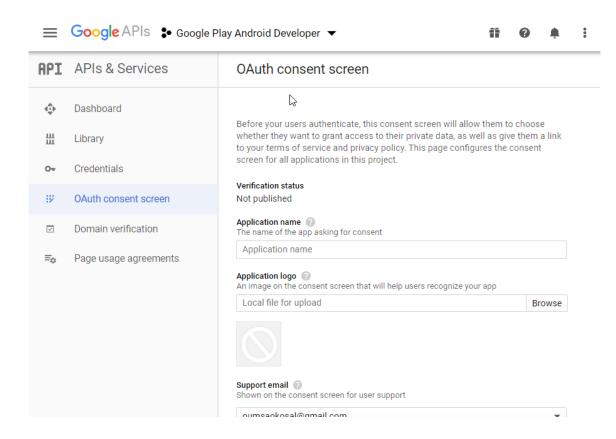




3. សំរាប់ Android គឺយើងត្រូវចុះឈ្មោះ App ក្នុង Consent Screen សិន៖

https://console.developers.google.com/

បញ្ហាក់៖ បើយើងចុះឈ្មោះទេ ពេលដែល release App វ៉ានឹងចេញ APIException Error





- 4. សំរាប់ iOS គឺយើងត្រូវដាក់ GoogleService-Info.plist ក្នុង [my_project]/ios/Runner
- 5. ក្នុង [my_project]/ios/Runner/Info.plist គឺត្រូវថែម៖

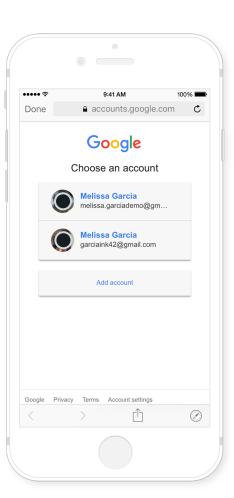
```
<!-- Put me in the [my_project]/ios/Runner/Info.plist file -->
<!-- Google Sign-in Section -->
<key>CFBundleURLTypes</key>
<array>
      <dict>
            <key>CFBundleTypeRole</key>
            <string>Editor</string>
            <key>CFBundleURLSchemes</key>
            <array>
                  <!-- TODO Replace this value: -->
                  <!-- Copied from GoogleService-Info.plist key REVERSED_CLIENT_ID -->
                  <string>com.googleusercontent.apps.861823949799-vc35cprkp249096uujjn0vvnmcvjppkn</string>
            </array>
     </dict>
</array>
<!-- End of the Google Sign-in Section -->
```



6. បន្ទាប់យើងហៅកូដខាងក្រោម ដើម្បីប្រើសំរាប់ Sign In បាន៖

import 'package:firebase auth/firebase auth.dart' as auth;

```
import 'package:google sign in/google sign in.dart';
GoogleSignIn googleSignIn();
_handleGoogleSignIn() async {
  final googleUser = await googleSignIn.signIn();
  final googleAuth = await googleUser.authentication;
  final credential = auth.GoogleAuthProvider.credential(
         idToken: googleAuth.idToken,
         accessToken: googleAuth.accessToken);
  auth.UserCredential userCredential =
      await auth.FirebaseAuth.instance.
              signInWithCredential(credential);
 if (userCredential != null) {
    auth.User user = userCredential.user;
   Navigator.of(context).pushReplacement(MaterialPageRoute(
       builder: (context) => MainPage(user: user)));
 } else {
    print("Google Login Failed"),
```





INSTINCT របៀប Login ដោយប្រើ Facebook

Firebase ក៏អនុញ្ញាតិអោយយើងប្រើ Facebook Login ផងដែរ។ ប៉ុន្តែវាទាមទារអោយយើងត្រូវបង្កើត App មួយ ក្នុង Facebook Developer សំរាប់តំណាងអោយ Smartphone App យើង។

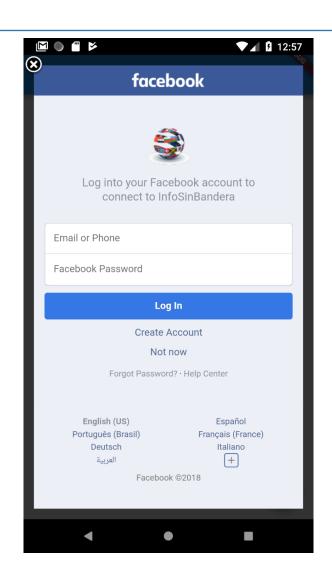
1. ដាក់ dependency google_sign_in៖

dependencies:

flutter_facebook_auth: "^0.3.3"

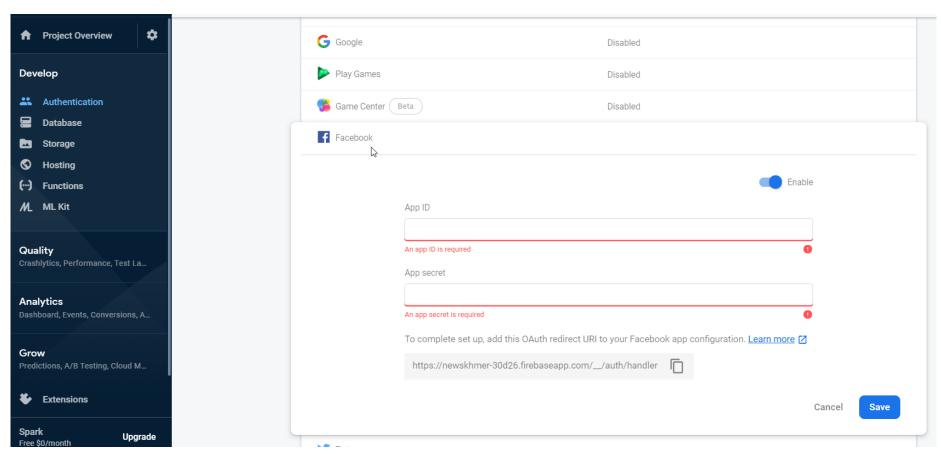
សូមមើល version ក្នុង៖

https://pub.dev/packages/flutter login facebook



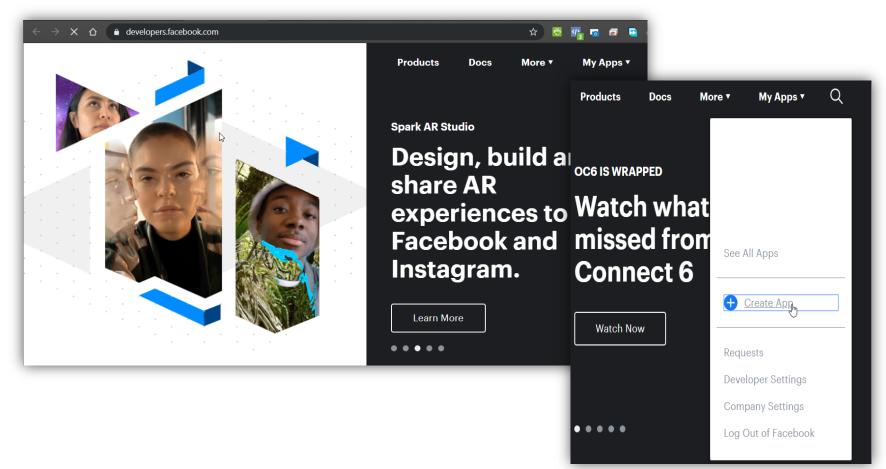


2. បើក option Google ក្នុង Firebase Authentication។ នៅក្នុងនេះ វាទាមទារអោ យដាក់ App ដែលត្រូវបង្កើតក្នុង Facebook Developer (សូមមើល slide បន្ទាប់)៖



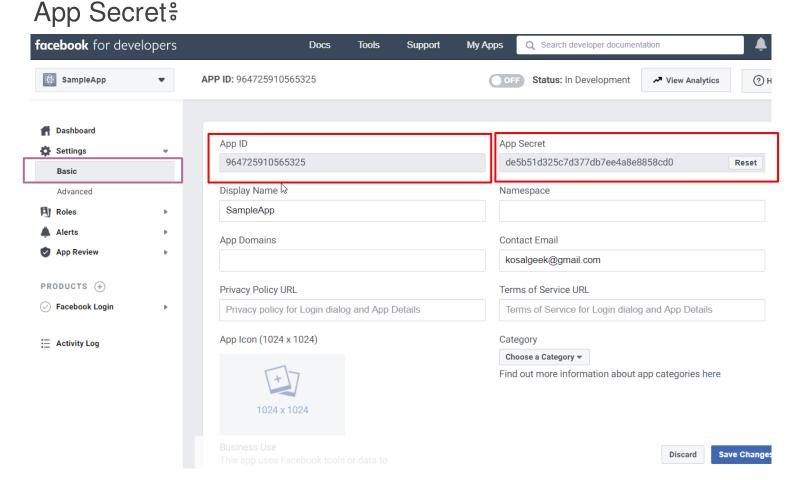


- 3. ប៊ូល https://developers.facebook.com/
- 4. រួចហើយបង្កើត App មួយ ព្រមទាំងអនុវត្តតាមការណែនាំរបស់វា



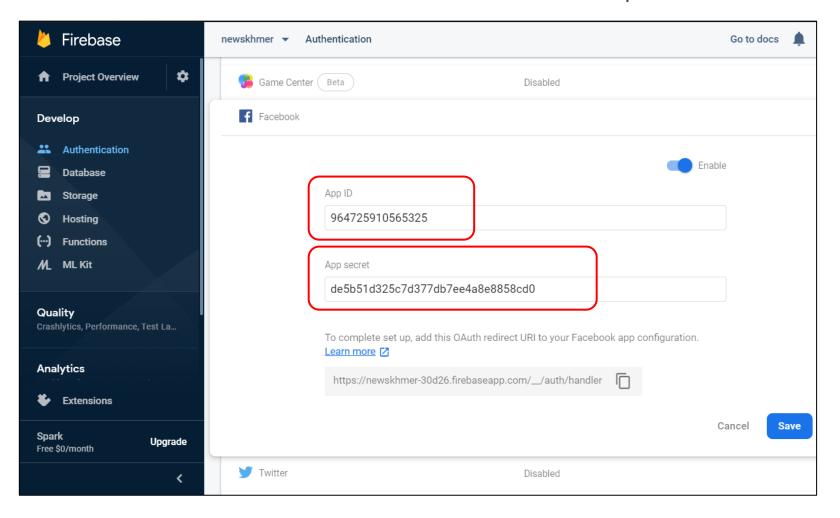


- 5. បន្ទាប់ពីបង្កើតរួចហើយ សូមចុច menu Settings -> Basic
- 6. ចុចត្រង់ App Secret ដើម្បីបើកមើល App Secret។ ហើយ copy App ID និង





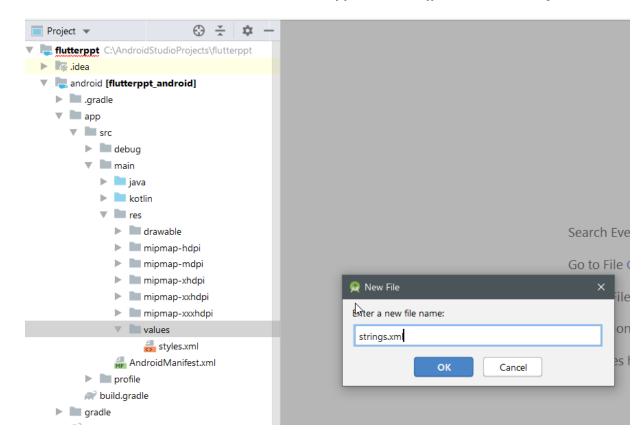
7. បន្ទាប់មកយក App ID និង App Secret មកដាក់ចូលក្នុង Firebase៖





សំរាប់ Android (1)

8. នៅក្នុង Android project folder, សូមចុចចូល android -> app -> src -> main -> res -> values -> ហើយបង្កើត file មួយដាក់ឈ្មោះថា strings.xml





សំរាប់ Android (2)

9. បន្ទាប់មក ត្រូវដាក់ code ខាងក្រោមចូល។ បញ្ជាក់ ត្រង់ facebook_app_id គឺយើង ត្រូវដាក់ app id ដែលបានពីផ្ទាំង Facebook Developer។ ហើយត្រង់ចំនុច fb_login_protocol_scheme គឺដាក់លេខ app id ដូចគ្នា គ្រាន់តែផ្ដើមដោយ fb។ ត្រង់លេខ 964725910565325 គឺត្រូវដាក់លេខ app id ពិតរបស់អ្នក៖



សំរាប់ Android (3)

10. សូម paste កូដខាងក្រោមចូលក្នុង AndroidManifest.xml។ គឺដាក់កូដត្រង់ចន្លោះ Application tag (សូមមើលរូបនៅ slide បន្ទាប់)៖



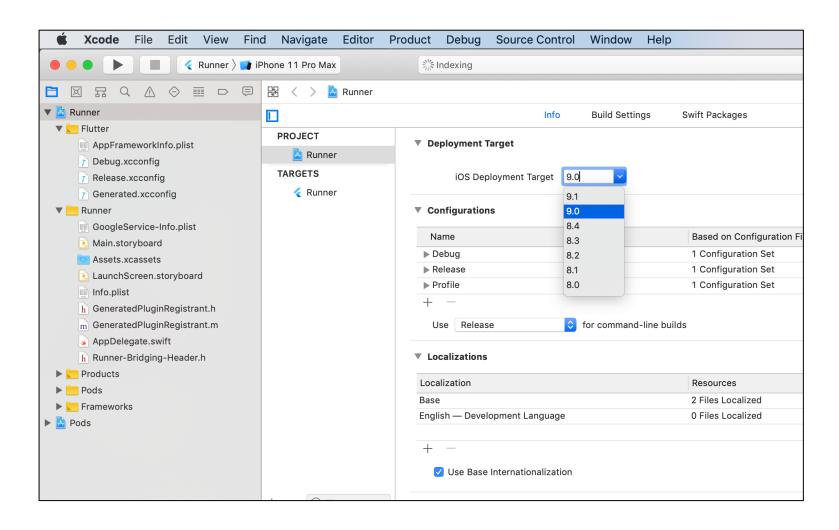
សំរាប់ Android (4)

```
AndroidManifest.xml ×
 Flutter commands
                                                                                                                                                          Open for Editing in
                  raccomppared can und pac your educom ease nere
             <application
                 android:name="io.flutter.app.FlutterApplication"
                 android:label="flutterppt"
11
                 android:icon="@mipmap/ic_launcher">
13
                 <activity
                     android:name=".MainActivity"
14
                     android:launchMode="singleTop"
16
                     android:theme="@style/LaunchTheme"
                     android:configChanges="orientation|keyboardHidden|keyboard|screenSize|locale|layoutDirection|fontScale|screenLayout|density|uiMode"
17
                     android:hardwareAccelerated="true"
18
                     android:windowSoftInputMode="adjustResize">
20
                     <meta-data
21
                         android:name="io.flutter.app.android.SplashScreenUntilFirstFrame"
                         android:value="true" />
22
                     <intent-filter>
                         <action android:name="android.intent.action.MAIN"/>
24
                         <category android:name="android.intent.category.LAUNCHER"/>
25
                     </intent-filter>
26
                 </activity>
                 <meta-data android:name="com.facebook.sdk.ApplicationId"</pre>
28
29
                     android:value="@string/facebook_app_id"/>
30
                 <activity android:name="com.facebook.FacebookActivity"
31
32
                     android:configChanges=
                         "keyboard|keyboardHidden|screenLayout|screenSize|orientation"
33
                     android:label="@string/app_name" />
35
36
                 <activity
37
                     android:name="com.facebook.CustomTabActivity"
                     android:exported="true">
38
                     <intent-filter>
39
40
                         <action android:name="android.intent.action.VIEW" />
                         <category android:name="android.intent.category.DEFAULT" />
41
                         <category android:name="android.intent.category.BROWSABLE" />
42
                         <data android:scheme="@string/fb_login_protocol_scheme" />
43
                     </intent-filter>
44
                 </activity>
45
             </application>
46
        </manifest>
         manifest > application > activity
```



INSTINCT សំរាប់ iOS (1)

• ឃ័ា version 9





សំរាប់ iOS (2)

11. សំរាប់ iOS គឺដាក់កូដខាងក្រោមចូល <your project root>/ios/Runner/Info.plist៖

```
<key>CFBundleURLTypes</key>
<array>
<!--
<dict>
... Some other CFBundleURLTypes definition.
</dict>
-->
<dict>
    <key>CFBundleURLSchemes</key>
    <array>
        <!--
          Replace "964725910565325" with your Facebook App ID here.
          **NOTE**: The scheme needs to start with `fb` and then your ID.
        <string>fb964725910565325</string>
    </array>
</dict>
</array>
<key>FacebookAppID</key>
    <!-- Replace "964725910565325" with your Facebook App ID here. -->
<string>964725910565325
<key>FacebookDisplayName</key>
    <!-- Replace "SampleApp" with your Facebook App name. -->
<string>SampleApp</string>
<key>LSApplicationQueriesSchemes</key>
<array>
    <string>fbapi</string>
    <string>fb-messenger-share-api</string>
    <string>fbauth2</string>
    <string>fbshareextension</string>
</array>
```



STINCT Facebook Login

```
import 'package:firebase auth/firebase auth.dart' as auth;
import 'package:flutter facebook auth/flutter facebook auth.dart';
handleFacebookLogin() async {
 // Triager the sign-in flow
 final LoginResult result = await FacebookAuth.instance.login();
 // Create a credential from the access token
 final auth.FacebookAuthCredential fbAuthCredential =
     auth.FacebookAuthProvider.credential(result.accessToken.token);
 // Once signed in, return the UserCredential
 auth.UserCredential userCredential = await auth.FirebaseAuth.instance
      .signInWithCredential(fbAuthCredential);
 if (userCredential != null) {
   auth.User user = userCredential.user;
   Navigator.of(context).pushReplacement(MaterialPageRoute(
       builder: (context) => MainPage(
             user: user,
            )));
 } else {
     print("Facebook Login Failed");
```