(iOS) Custom Google Sign in Button

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In this article, I introduce you how to implement a custom designed Google Sign-in button using UIButton on the storyboard.

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Step 1: Install the pod

Create a pod file using Cocoapods and install the pod for Google authentication.

```
pod 'GoogleSignIn'
```

Step 2: Get an AuthO ID

Go to https://developers.google.com/identity/sign-in/ios/start-integrating to get an AuthO ID. If you haven't created a Firebase project, create it before this step.

Get an OAuth client ID

If you haven't already created an OAuth client ID, click the button below to do so.

CREATE AN OAUTH CLIENT ID

After you create the OAuth client ID, take note of the client ID string, which you will need to configure Google Sign-in in your app. You can optionally download the configuration file, which contains your client ID and other configuration data, for future reference.
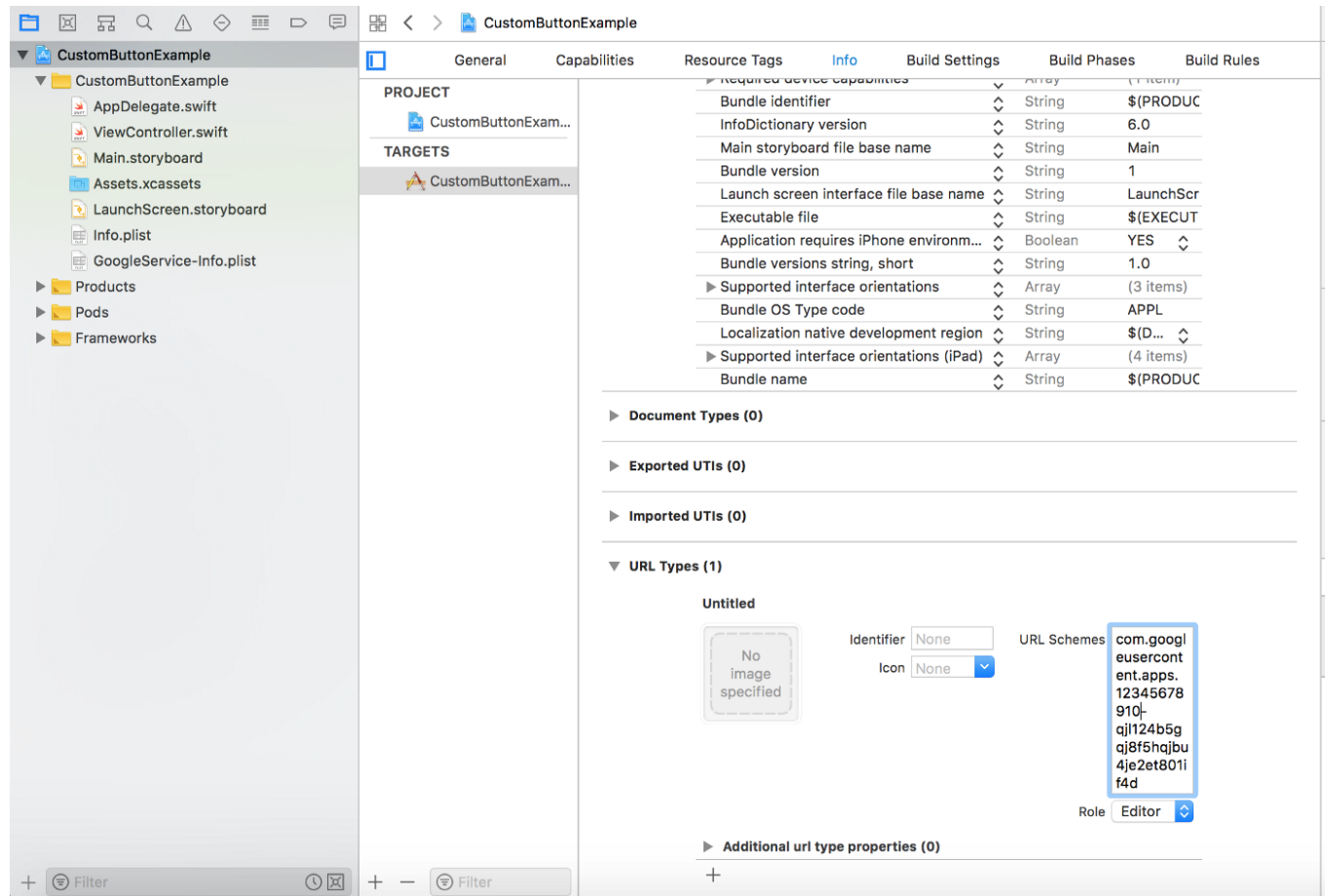
If you already created an OAuth client ID, you can find your existing OAuth information by clicking the button below.

GET AN EXISTING OAUTH CLIENT ID

Google Developers Website

Step 3: Add an URL scheme

Click your project name in the project navigation bar and go to 'TARGETS' -> 'Info' -> 'URL Types'. Then, Click '+' button and add your reversed client ID to 'URL Schemes'. You can get your reversed client ID from the list name of REVERSED_CLIENT_ID in the 'GoogleService-Info.plist'.

The Location of URL Types

Step 4: Add sign-in functions

In order to implement the actual sign-in function, you can write like the code bellow.

AppDelegate.swift

```swift
func application(_ application: UIApplication,
didFinishLaunchingWithOptions launchOptions:
[UIApplicationLaunchOptionsKey: Any]?) -> Bool {
  FirebaseApp.configure()
  return true
}


func application(_ application: UIApplication, open url: URL,
options: [UIApplicationOpenURLOptionsKey : Any]) -> Bool {
  let handled = GIDSignIn.sharedInstance().handle(url,
sourceApplication:options[UIApplicationOpenURLOptionsKey.sourceAppli
cation] as? String, annotation: [:])
  return handled
}
```

ViewController.swift

```swift
import UIKit
import Firebase
import GoogleSignIn
```

```swift
class ViewController: UIViewController, GIDSignInDelegate,
GIDSignInUIDelegate {


  override func viewDidLoad() {
    super.viewDidLoad()
    GIDSignIn.sharedInstance().delegate = self
    GIDSignIn.sharedInstance().uiDelegate = self
  }


// Present a sign-in with Google window


  @IBAction func googleSignIn(sender: AnyObject) {
    GIDSignIn.sharedInstance().signIn()
  }


  func sign(_ signIn: GIDSignIn!, didSignInFor user: GIDGoogleUser!,
withError error: Error!) {
    print("Google Sing In didSignInForUser")
    if let error = error {
      print(error.localizedDescription)
      return
    }
    guard let authentication = user.authentication else { return }
    let credential = GoogleAuthProvider.credential(withIDToken:
(authentication.idToken)!, accessToken:
(authentication.accessToken)!)


// When user is signed in
    Auth.auth().signIn(with: credential, completion: { (user, error)
in
      if let error = error {
        print("Login error: \(error.localizedDescription)")
        return
      }


    })
```

```
    }

    // Start Google OAuth2 Authentication
    func sign(_ signIn: GIDSignIn?, present viewController:
UIViewController?) {

      // Showing OAuth2 authentication window
      if let aController = viewController {
        present(aController, animated: true) {() -> Void in }
      }
    }

    // After Google OAuth2 authentication
    func sign(_ signIn: GIDSignIn?, dismiss viewController:
UIViewController?) {

      // Close OAuth2 authentication window
      dismiss(animated: true) {() -> Void in }

    }

}
```
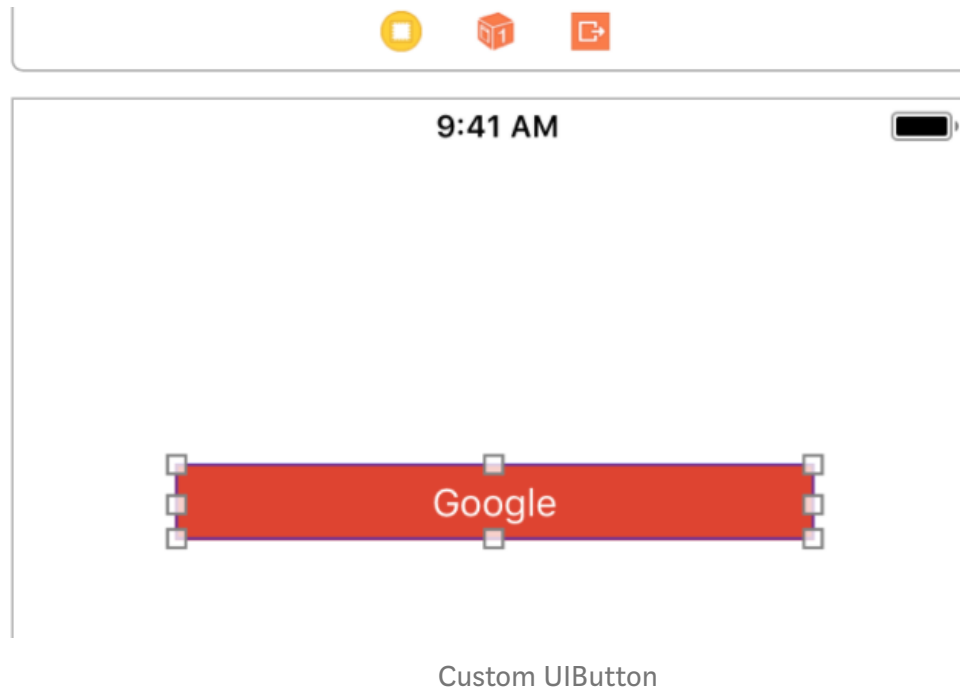
Step 5: Create a UIButton on the storyboard

Create an UIButton on the storyboard and connect it with the IBAction you made (In the example above, it's **googleSignIn(sender:)** action.).

Custom UIButton

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That's it. Now you should have a custom designed Google Sign-in button.

Reference:

Google Sign-In for iOS

https://developers.google.com/identity/sign-in/ios/

Firebase Documentation

https://firebase.google.com/docs/auth/ios/google-signin

Google Sign-In for iOS (Written in Japanese)

https://qiita.com/shin1ogawa/items/0700c443262ba3d444a7

Swift

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