

 Sign in with Apple

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# SIGN-IN WITH APPLE

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- ▶ Users can sign into third-party apps with their Apple ID
- ▶ Will be mandatory for all apps with third-party logins
- ▶ Users can hide their E-mail address
  - ▶ Apple generates a new mail address
  - ▶ Forwards mails to the user's real address

### INITIATING A LOGIN

```
let appleIDProvider = ASAuthorizationAppleIDProvider()
let request = appleIDProvider.createRequest()
request.requestedScopes = [.fullName, .email]

let authorizationController =
    ASAuthorizationController(authorizationRequests: [request])

// This is not required in all setups
authorizationController.presentationContextProvider = self

authorizationController.delegate = self
authorizationController.performRequests()
```

## CONTEXT PROVIDER

- ▶ Provide a window to present the login dialog
- ▶ Needed in multi-window environments

```
typealias ASPresentationAnchor = UIWindow // iOS, Mac Catalyst, tvOS
typealias ASPresentationAnchor = NSWindow // macOS
```

```
extension LoginViewController:
    ASAuthorizationControllerPresentationContextProviding {

    func presentationAnchor(for controller:
        ASAuthorizationController) -> ASPresentationAnchor {

        return UIApplication.shared.windows.first!
    }

}
```

## GET LOGIN RESULTS

```
extension LoginViewController: ASAuthorizationControllerDelegate {

    func authorizationController(controller: ASAuthorizationController,
                                didCompleteWithAuthorization authorization: ASAuthorization) {
        guard let credentials = authorization.credential
                                   as? ASAuthorizationAppleIDCredential else {
            print("Could not cast to ASAuthorizationAppleIDCredential.")
            return
        }

        // Send credentials to backend for verification
    }

    func authorizationController(controller: ASAuthorizationController,
                                didCompleteWithError error: Error) {
        guard let authError = error as? ASAuthorizationError else {
            print(error)
            return
        }

        // Handle Error
        // Cancelling will also result in an error
    }
}
```

# ASAuthorizationAppleIDCredential

- ▶ UserID
- ▶ Full Name ?
- ▶ E-Mail Address ?
- ▶ Real User Status
  - ▶ Indicates if the user is likely a real person
- ▶ Identity Token
  - ▶ JWT signed by Apple which includes user information
- ▶ Authorization Code
  - ▶ Used as proof for the app's server backend

### VERIFYING THE USER (BACKEND)

- ▶ Generate a key for sign in with Apple
  - ▶ <https://developer.apple.com/account/resources/authkeys/list>
- ▶ Generate the client secret using the key
  - ▶ [https://developer.apple.com/documentation/signinwithapplerestapi/generate\\_and\\_validate\\_tokens](https://developer.apple.com/documentation/signinwithapplerestapi/generate_and_validate_tokens)
- ▶ Send the client secret and the authorization code to apple for verification

DEMO



### OBSERVE CHANGES IN AUTHENTICATION

- ▶ Check if the user revoked the authentication

```
ASAuthorizationAppleIDProvider()  
    .getCredentialState(forUserID: user) { state, error in  
    // Check error and current authentication state  
}
```

- ▶ NotificationCenter observer

~~NSNotification.Name.ASAuthorizationAppleIDProviderCredentialRevoked~~

- ▶ No longer available since Xcode Beta 3

### PRIVATE MAIL RELAY

- ▶ SPF DNS TXT Entries Mandatory for Domains
- ▶ Domain needs to be verified in the Developer Portal
  - ▶ <https://developer.apple.com/account/resources/services/configure>
- ▶ Mails need to be sent from a verified domain

**THANK You**