AEM Mobile: Setting up Facebook as an Identity Provider

Requirement:
Prerequisite knowledge
• Understanding of AEM Mobile

Required Products
• AEM Mobile
• Facebook Account

Generating the client ID and secret
1. Navigate to the Facebook developer portal.
2. If you have already logged in, continue to next step. Otherwise, do the following:
   - Click on the "Log In" button to be directed to the Facebook login.
     
     ![Facebook Log In](image1.png)

     - When successfully logged in, you will be redirected back to the Facebook developer portal.

3. If you have logged in with a Facebook developer account, continue to next step.
   Otherwise, do the following:
   - Click on the “Register” button to upgrade the current Facebook account to a Facebook developer account.
- When prompted, select the toggle button to agree to the Facebook policies and click "Register" again.

- The Facebook account is now upgraded to a Facebook developer account. You will be directed to the Facebook developer quick start page.
4. From the [Facebook quick start page](https://developers.facebook.com), select the "basic setup" option.
5. Fill out the form to create a new app.

![Create a New App ID form](image)
- You may be prompted for a security check, answer the question and click "Submit" to proceed.
You may be prompted to verify the Facebook account if you have not done so before. You can verify it via mobile phone or credit card.
6. After creating the app, you will be directed to the app dashboard page. Select the "Dashboard" button from the left rail, if not already selected.

7. From the dashboard, you will find the app API version, app ID, and app secret (click "Show" to display).
Adding Facebook as an Identity Provider

Now that you have the Facebook OAuth client ID and secret, you can set up Facebook as an Identity Provider in the AEM Mobile On-Demand Services. Below are the necessary configurations:

1. **Authorization Grant Type** – choose either **Authorization Code** or **Implicit**.
2. **Token Endpoint** – enter the following Facebook OAuth token URL:
   a. Format: https://graph.facebook.com/<app-api-version-number>/oauth/access_token
   b. i.e. for API version 2.6:
      https://graph.facebook.com/v2.6/oauth/access_token
3. **Client Secret** – the Facebook app secret that was generated previously (see: "Generating the client ID and secret" earlier in this article).
4. **Authorization Endpoint** – enter the following Facebook OAuth authorization URL with the necessary parameters:
   b. The authorization URL allows for more optional parameters, for the full list, please refer to the Facebook documentation: [Manually Build a Login Flow](#).
5. **Client Identifier** – the Facebook app ID that was generated previously (see "Generating the client ID and secret" earlier in this article).
6. **Access Token Scope** – enter the desired access that the token will need, i.e. email.
Granting access based on Facebook user

After setting up Facebook as an Identity Provider in AEM Mobile, this will enable users to log in with their Facebook account. To entitle a Facebook user to a collection, you will need to set up an entitlement service with the get entitlement request.

1. After a successful login with Facebook, the AEM Mobile Runtime will send an access token to the entitlement service in the following POST data field:
   - `authToken`

2. Using the following Facebook API, you can use the access token to pull the user profile from Facebook:
   - `https://graph.facebook.com/me?fields=email&access_token=<ACCESS_TOKEN>`

3. If you have entered "email" in the access token scope previously (see: Adding Facebook as an Identity Provider), then you should see the Facebook email information.
   - Optionally, you can cache the access token and email so that you can limit the number of requests in step #2 and increase performance. For example, cache the access token and email for up to 24 hours so that the email address is only requested once a day.

4. Depending on your entitlement service setup, you can query the entitlement server using the Facebook user email for the list of entitled product IDs.
Sample Code
The following is an example for an entitlement service written in PHP:

```php
// your_entitlement_server/services/index.php

// one of the many ways of filtering special characters,
// there are also more sophisticated 3rd party libraries that do this
function escapeURLData($dataToEscape) {
    if(get_magic_quotes_gpc()) {
        $dataToEscape = stripslashes($dataToEscape);
    } else {
        $dataToEscape = strip_tags($dataToEscape);
    }
    return $dataToEscape;
}

// attempts to read the access token POST from the AEM Mobile Runtime
$authToken = isset($_REQUEST['authToken']) ? escapeURLData($_REQUEST['authToken']) : null;

// continues only if the access token is provided
if ($authToken) {
    // trade in the access token for user profile using the Facebook API
    $response = file_get_contents('https://graph.facebook.com/me?fields=email&access_token=' . urlencode($authToken));
    // decode the JSON string in order to access the data
    $facebookUser = json_decode($response, true);
    // the Facebook user email is in the "email" property
    $facebookUserEmail = $facebookUser['email'];

    // TODO: using the Facebook user email,
    // query the entitlement server for a list of entitled product IDs
}
?>
```
Legal Notice

The contents of this guide is subject to the Terms of Use, is furnished under license and may be used or copied only in accordance with the terms of such license. No part of this guide may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, recording, or otherwise, without the prior written permission of Adobe Systems Incorporated.

Please note that the content in this guide is protected under copyright law even if it is not distributed with software that includes an end user license agreement.

The content of this guide is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by Adobe Systems Incorporated. Adobe Systems Incorporated assumes no responsibility or liability for any errors or inaccuracies that may appear in the informational content contained in this guide.

Please remember that existing artwork or images that you may want to include in your project may be protected under copyright law. The unauthorized incorporation of such material into your new work could be a violation of the rights of the copyright owner. Please be sure to obtain any permission required from the copyright owner.