## **OAuth 2.0: Authorization Code Flow Demonstration**

## INTRODUCTION

As general web applications being server-side applications where the source code is not public mostly using the authorization code flow (OAuth 2.0 RFC 6749, section 4.1), which exchanges an authorization code for a token. As mentioned above the application must be server-side since during the exchange the application's App Secret will transfer to the user account or the requested party where it will store on that end for further use.

## **HOW IT WORKS**

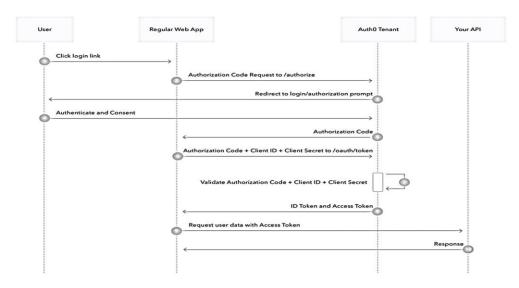


Fig 1. Authorization Code Flow [2]

- 1. User logs in to the application as usual [Fig. 2].
- 2. User is redirected to the authorization server (/authorize endpoint) by OAuth's software development kit.
- 3. User needs to log in resulting in an authorization prompt where it is redirected by the authorization server.
- 4. User authentication is done by a configured login option and prompts a consent with permissions requested where the web application can use it future when needed.

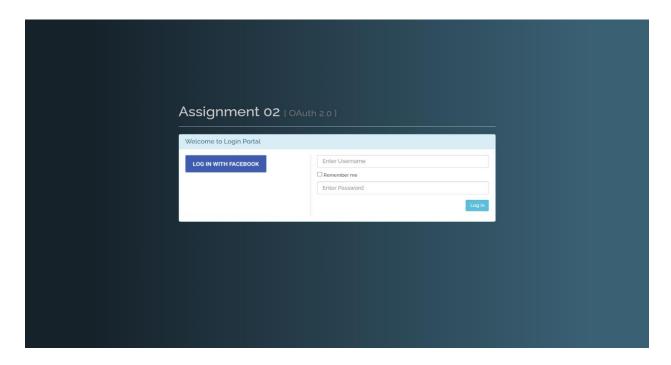


Fig 2. User Log in Page

- 5. Users are redirected back to the web application with an authorization code by the authorization server.
- 6. Authorization server (/oauth/token endpoint) catches this code when it is sent by the OAuth's software development along with the application's App ID and App Secret [Fig. 3].

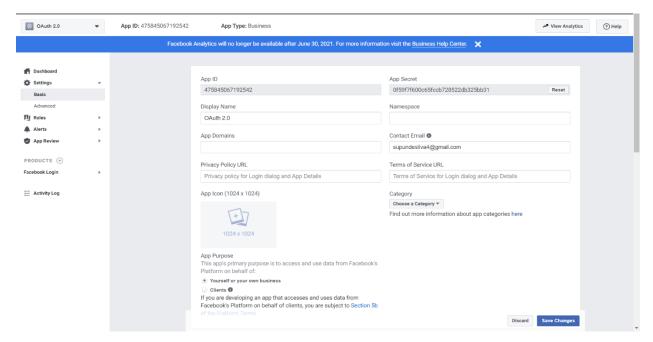


Fig 3. Application Properties

- 7. The code, App ID, and App Secret are verified by the authorization server.
- 8. A response with an ID and access token will be sent by the authorization server.

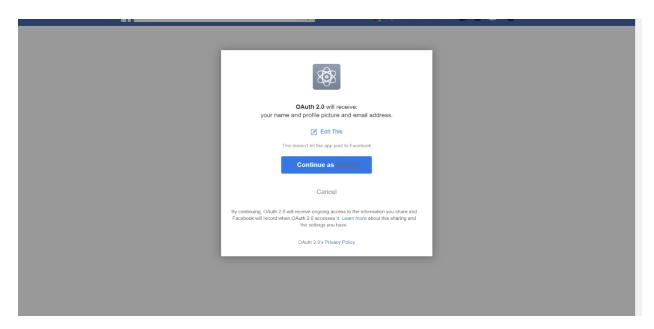


Fig 4. User Consent Prompt

- 9. Your application can use the Access Token to call an API to access information about the user.
- 10. A response from the application programming interface with requested data.

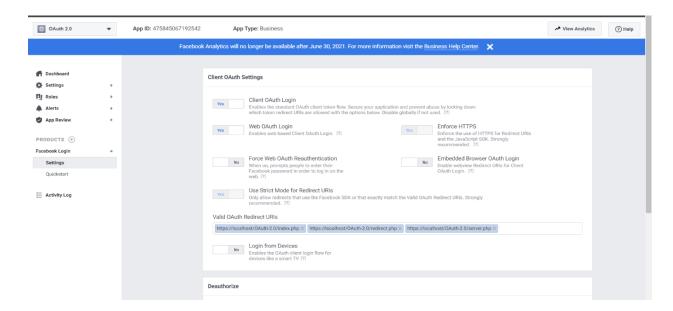


Fig 5. Application URI Properties

## **REFERENCES**

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