OAuth 2.0 Authorization Code Flow

Authentication

Email
Password
login

Email					
Password		WHERE emai	il = ? AND	password	= ?
	login	 username	email	password	

Password

WHERE email = ? AND password = ?

login

username email password

hi {username}

login failed

Delegated Authorization with OAuth 2.0

流程圖

```
Resource
   Owner |
   (B)
                    Client Identifier
         -+---(A)-- & Redirection URI ---->|
| User-
                                          | Authorization
| Agent -+---(B)-- User authenticates --->|
                                               Server
         -+---(C)-- Authorization Code ---<|
(A) (C)
         |>---(D)-- Authorization Code -----'
| Client |
           & Redirection URI
         |<---(E)---- Access Token -----
                (w/ Optional Refresh Token)
註: (A), (B), (C) 這三步的線拆成兩段,因為會經過 user-agent
                Figure 3: Authorization Code Flow
```

https://blog.yorkxin.org/2013/09/30/oauth2-4-1-auth-code-grant-flow.html

Email
Password
login

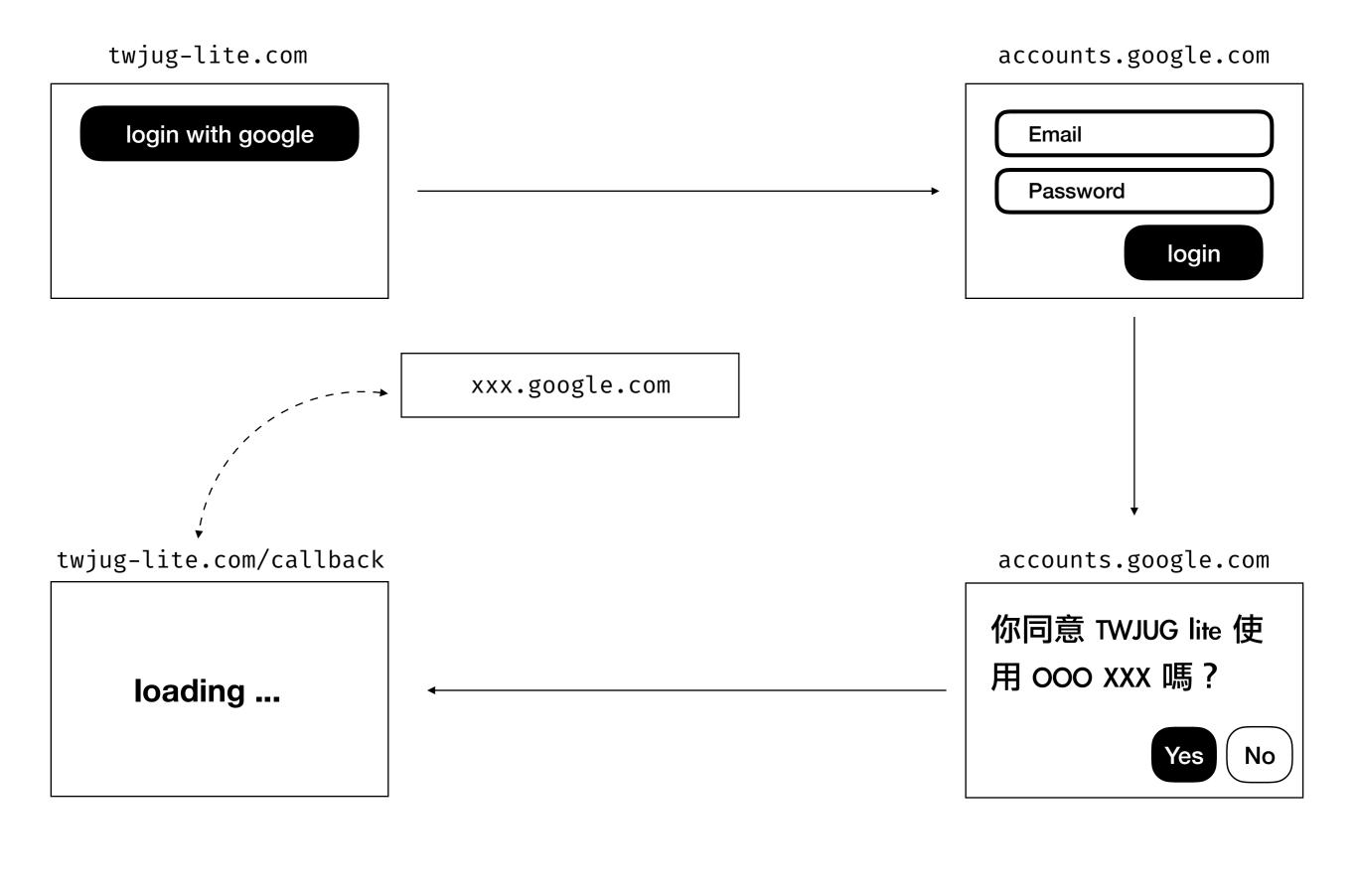
Email
Password
login

accounts.google.com

你同意 TWJUG lite 使 用 OOO XXX 嗎?



No



User-Agent, a.k.a. 瀏覽器

twjug-lite.com

accounts.google.com

login with google

Client

Authorization Sserver

Email
Password
login

Resource Server

xxx.google.com

twjug-lite.com/callback

accounts.google.com

你同意 TWJUG lite 使 用 OOO XXX 嗎?

Yes

Consent

loading ...



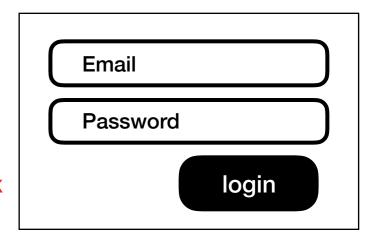
RE: 重零開始的 OAuth Flow 細節生活



(1) go to authorization server

response_type: code

redirect_uri: twjut-lite.com/callback



accounts.google.com

你同意 TWJUG lite 使 用 ooo xxx 嗎?



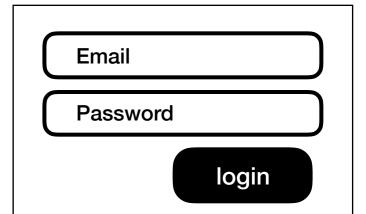
No



go to authorization server

response_type: code

redirect_uri: twjut-lite.com/callback



twjug-lite.com/callback

loading ...

Back to redirect URI

with authorization code

accounts.google.com

你同意 TWJUG lite 使 用 OOO XXX 嗎?



No

loading ...

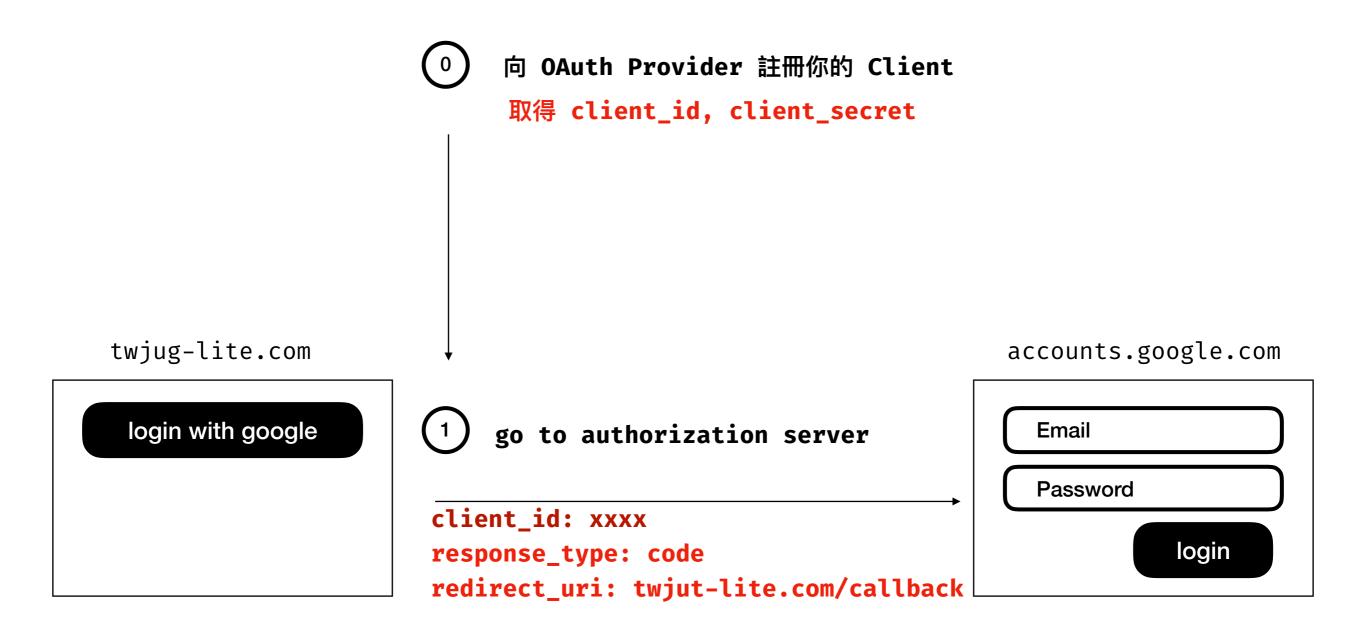
with authorization code

用 ooo xxx 嗎?



動手做看看

https://auth0.com/docs/api-auth/tutorials/authorization-code-grant



```
https://YOUR_DOMAIN/authorize?

audience=YOUR_API_AUDIENCE&

scope=YOUR_SCOPE&

response_type=code&

client_id=YOUR_CLIENT_ID&

redirect_uri=https://YOUR_APP/callback&

state=YOUR_OPAQUE_VALUE
```

