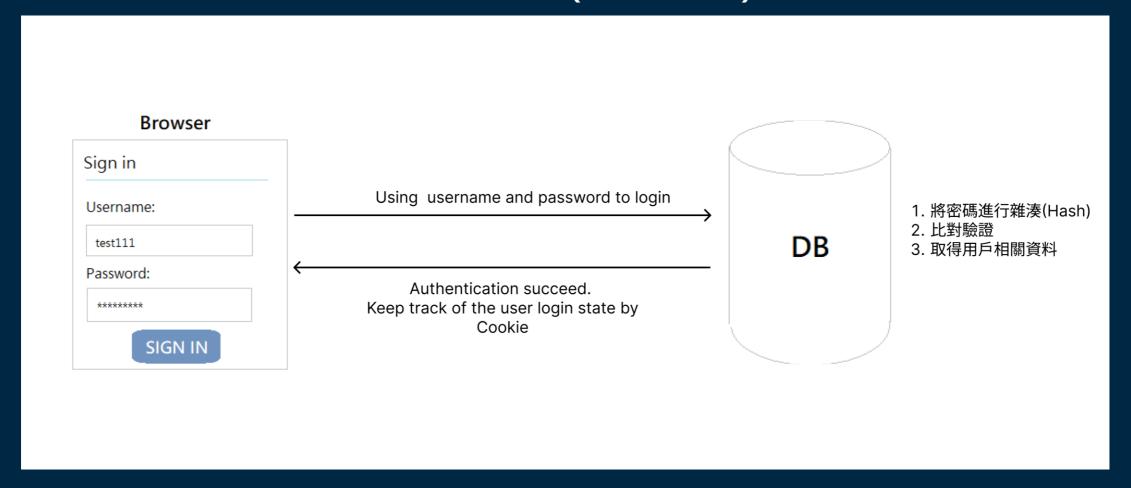
WP Lightning Talk

想在你的網頁中加入 Google 登入嗎? Google OAuth 2.0

Outline

- 1. Delegated Authorization
- 2. What is OAuth 2.0?
- 3. Implementation A simple personal website

自己設計的登入驗證系統(陽春版)



The delegated authorization problem

HOW CAN I LET A WEBSITE ACCESS MY DATA (WIHOUT GIVING IT MY PASSWORD)?

Don't do this way!

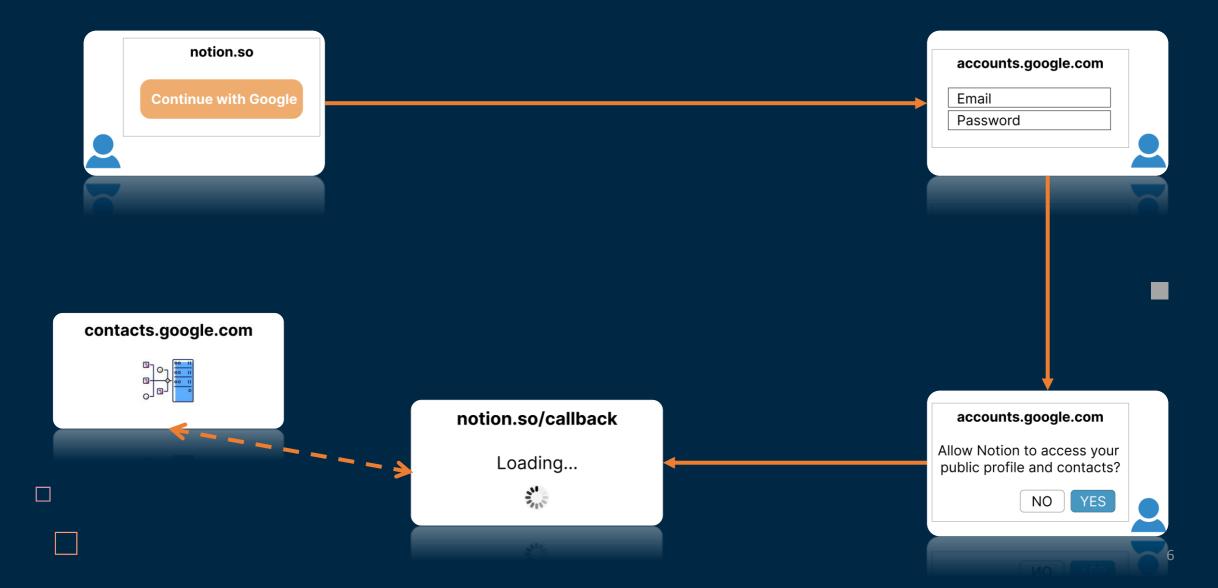
Are your friends already on Yelp? Many of your friends may already be here, now you can find out. Just log in and we'll display all your contacts, and you can select which ones to invite! And don't worry, we don't keep your email password or your friends' addresses. We loathe spam, too. Your Email Service YAHOO! MAIL msn. Hotmail AOL 🗽 Mail Your Email Address ima.testguy@gmail.com (e.g. bob@gmail.com) Your Gmail Password (The password you use to log into your Gmail email) Check Contacts Skip this step



Don't do this way!



Delegated authorization with OAuth 2.0



What is OAuth 2.0?

OAuth 2.0 是一個開源標準 (Open Standard) 用來處理有關授權 (Authorization) 的行爲。

能讓使用者能允許第三方應用程式 (client),取得其在另一個平台的資料,而不需要提供該平台的驗證資訊 (user credentials) 給該第三方應用程式。

OAuth 2.0 Terminology – 4 Roles

- Resource Owner
- Client (Application)
- Authorization Server
- Resource Server



More OAuth 2.0 Terminology

- Authorization Grant
- Access Token
- Redirect URI (Callback URL)
- Scope
- Consent



OAuth 2.0 Authorization Code Flow

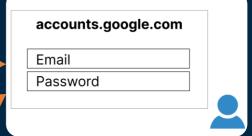
Client

notion.so **Continue with Google Resource Owner**

Go to authorization server

Redirect URI: notion.so/callback Response type: code

Authorization Server



Resource Server

contacts.google.com



Talk to resource server with access token

notion.so/callback

Loading...



Back to redirect URI

with authorization code

Request consent from resource owner

accounts.google.com

Allow Notion to access your public profile and contacts?







OAuth 2.0 REFERENCES:

- OAuth 2.0 Tutorial
- OAuth 2.0 and OpenID Connect (in plain English)
- [筆記] 認識 OAuth 2.0: 一次了解各角色、各類型■

流程的差異

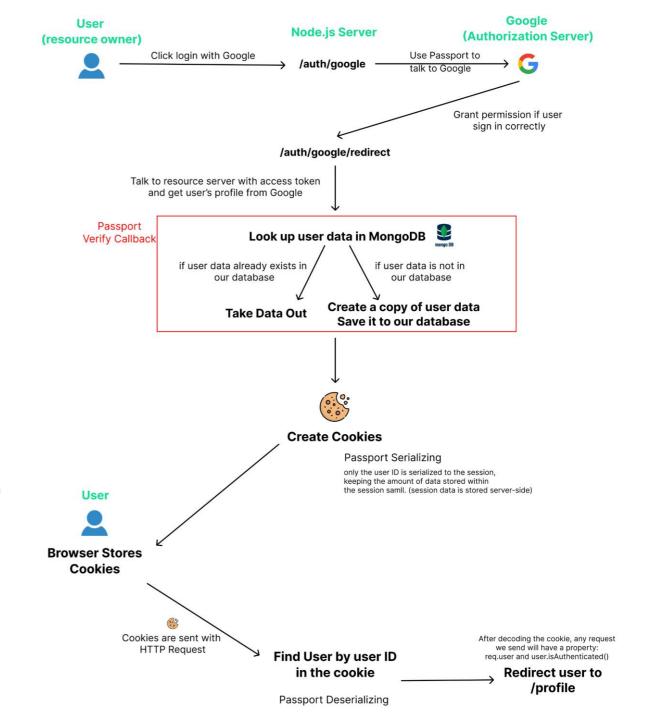
Implementation

A Simple Personal Website with Google Login

TECHNIQUES & APPLICATIONS

- Google OAuth 2.0
- MongoDB Atlas
- Node.js
- EJS (Embedded JavaScript)
- Passport.js

LOGIC DIAGRAM

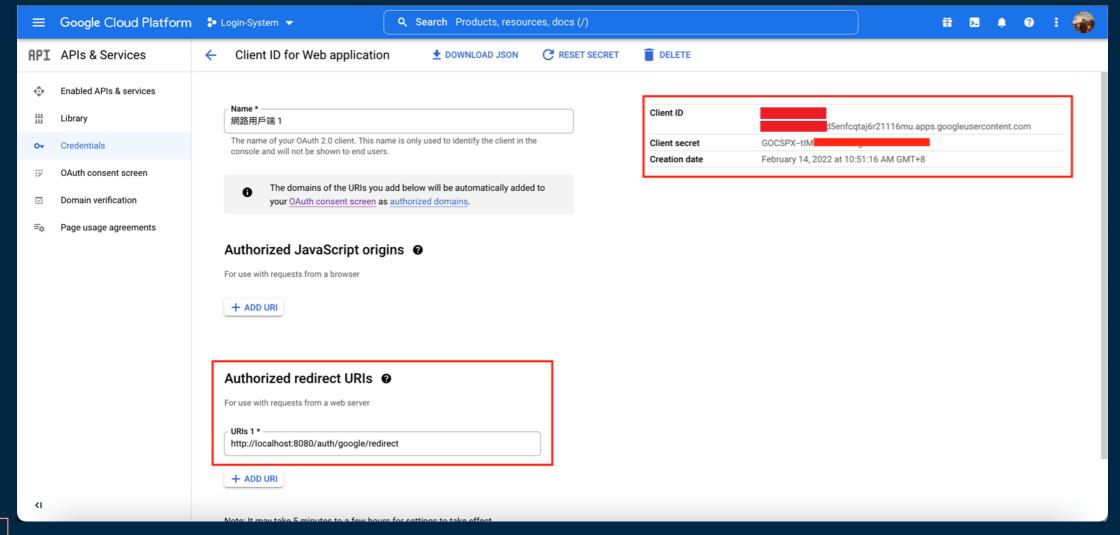


How to Use Google OAuth 2.0?

- 1.從 Google API Console 取得 OAuth 2.0 憑證
- 2.從 Google 授權伺服器取得存取憑證 (access token)
- 3.檢查使用者授予的存取權範圍 (scope)
- 4.將存取憑證傳送至 API
- 5.視需要重新整理存取憑證

REF: https://developers.google.com/identity/protocols/oauth2

How to Use Google OAuth 2.0?





PROJECT CODE (GITHUB)

https://github.com/xxrjun/google-login-oauth

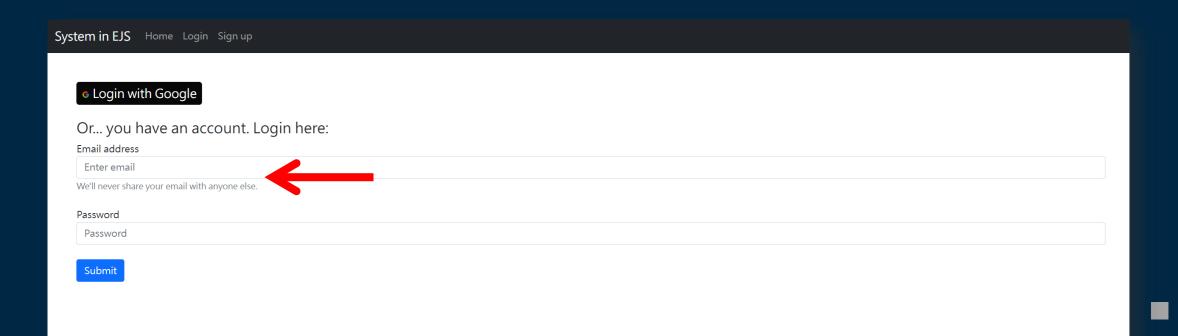
PROJECT TREE

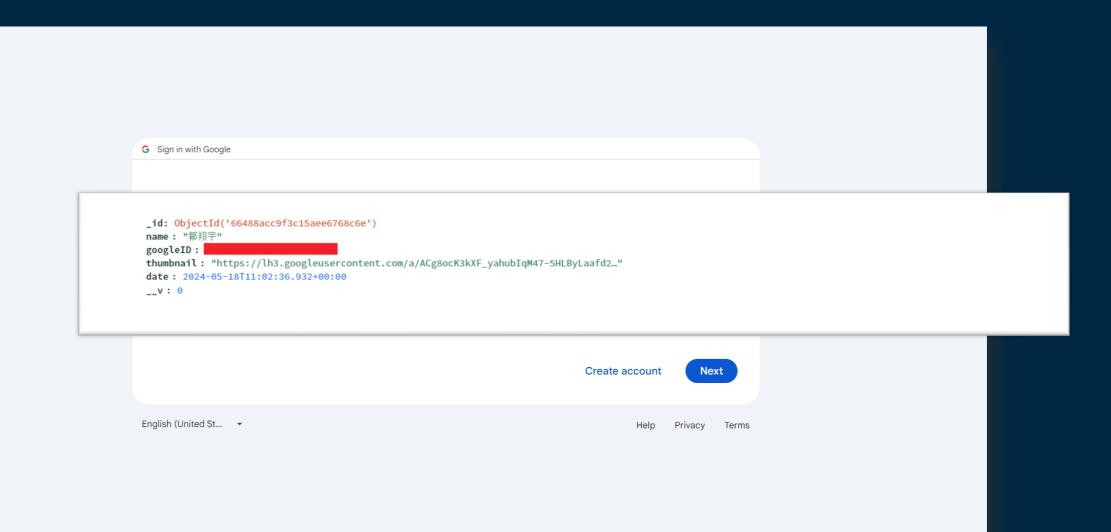
```
app.js
config
passport.js
models
    post-model.js
    user-model.js
routes
   - auth-route.js
    profile-route.js
views
    index.ejs
    login.ejs
    partials
        header.ejs
        messages.ejs
       - nav.ejs
    post.ejs
    profile.ejs
    signup.ejs
```

Environment Variable?

重要資訊 (如 token) 都不應該直接放在程式碼中,

應設為環境變數 (environment variable) 並妥善保管





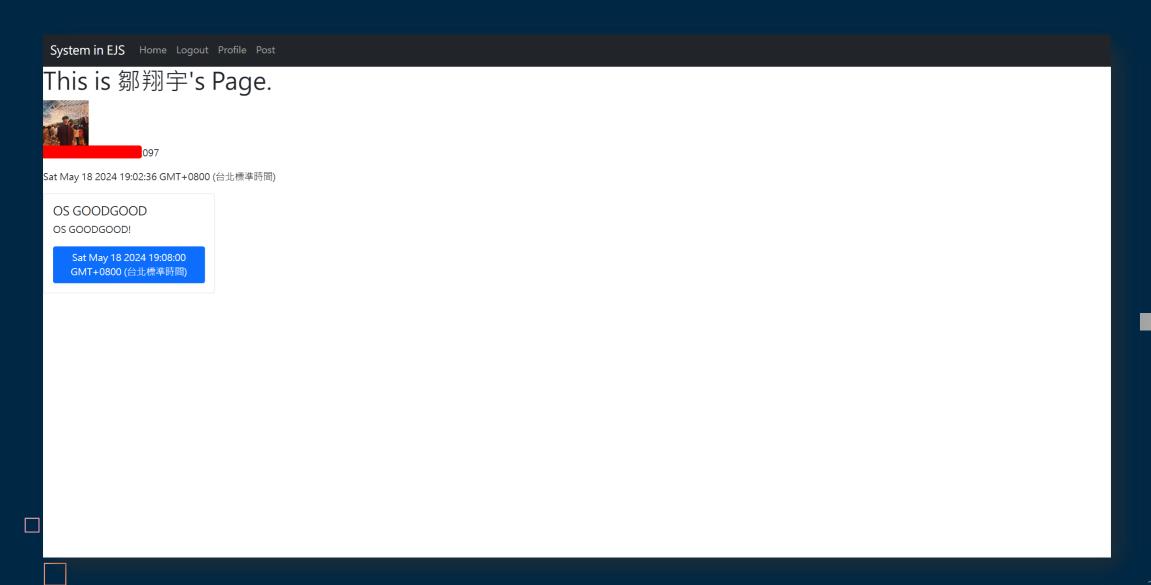
System in EJS Home Logout Profile Post

This is 鄒翔宇's Page.



097

Sat May 18 2024 19:02:36 GMT+0800 (台北標準時間)



Q&A

Thanks for your time and attention -