

JAVA WEB

Unit 7: Spring Security – OAuth2



Mục lục

1. **Create Google OAuth Credentials (Client ID and Secret)**
2. **Điền Client ID, Client Secret vào ứng dụng**
3. **Demo Chapter7ProductManagerGoogleOAuth2**
 - Lấy thông tin Authorized redirect URIs
 - Điền sang Oauth google.

UVINA

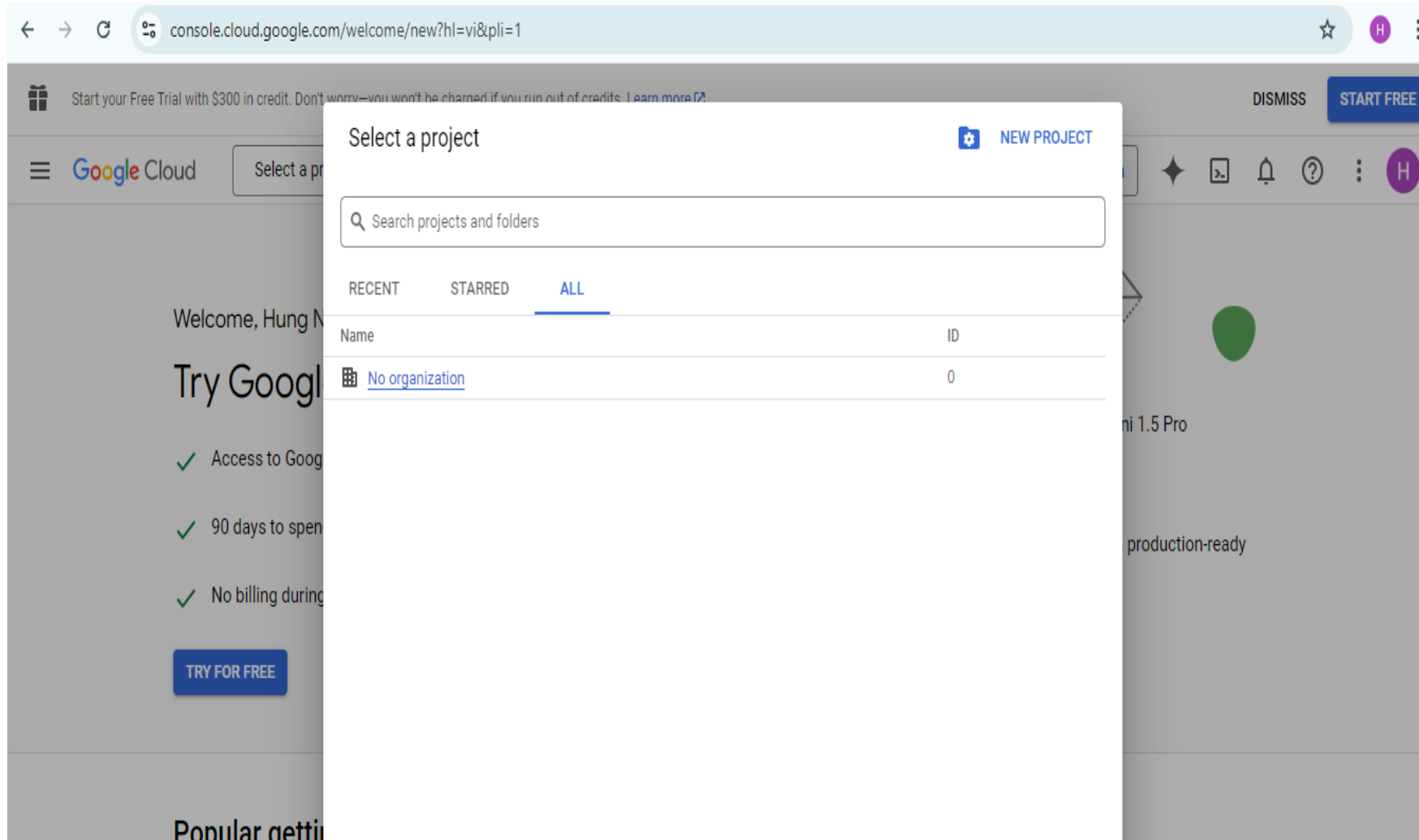
Create Google OAuth Credentials (Client ID and Secret)

- 1. Đăng nhập vào Google Cloud Console**
- 2. Tạo một Dự án Mới**
- 3. Kích hoạt API**
- 4. Tạo thông tin xác thực (Credentials)**



Đăng nhập vào Google Cloud Console

- Truy cập vào Google Cloud Console.
- Đăng nhập bằng tài khoản Google của bạn.



Tạo một Dự án Mới

- Nhấp vào menu thả xuống "Select a project" ở phía trên cùng của trang.
 - Chọn **New Project**.
- Điền tên dự án và chọn tổ chức (nếu cần).
- Nhấp vào **Create**.

New Project



You have 12 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name *

LuvinaTestGoogleOAuth



Project ID: round-rain-434204-r1. It cannot be changed later. [EDIT](#)

Location *

No organization

[BROWSE](#)

Parent organization or folder

CREATE

CANCEL

Kích hoạt API

6

The screenshot shows the Google Cloud console interface. At the top, the Google Cloud logo is on the left, and a search bar is on the right. Below the logo, the project name 'LuvinaTestGoogleOAuth' is displayed. The left sidebar contains a navigation menu with 'Cloud overview' at the top, followed by 'Solutions', and then 'PINNED PRODUCTS'. Under 'PINNED PRODUCTS', 'APIs & Services' is highlighted with a red box. A dropdown menu is open for 'APIs & Services', showing options: 'Enabled APIs & services' (highlighted with a red box), 'Library', 'Credentials', 'OAuth consent screen', and 'Page usage agreements'. The main content area shows the 'DASHBOARD' tab selected, with sections for 'Project info', 'APIs', 'Google Cloud Platform status', and 'Monitoring'. The 'APIs' section shows a graph for 'Requests (requests/sec)' with a warning that no data is available for the selected time frame.

Google Cloud

LuvinaTestGoogleOAuth

Search (/) for resources, docs, products, and more

Search

CUSTOMIZE

Cloud overview

Solutions

PINNED PRODUCTS

APIs & Services

Billing

IAM & Admin

Marketplace

Vertex AI

Compute Engine

Project info

Project name

LuvinaTestGoogleOAuth

Enabled APIs & services

Library

Credentials

OAuth consent screen

Page usage agreements

Go to project settings

APIs

Requests (requests/sec)

No data is available for the selected time frame.

Google Cloud Platform status

All services normal

Go to Cloud status dashboard

Monitoring

Create my dashboard

Set up alerting policies

Create uptime checks

Tạo thông tin xác thực (Credentials)

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

DISMISS [START FREE](#)

Google Cloud LuvinaTestGoogleOAuth Search (/) for resources, docs, products, and more Search

APIs & Services

Enabled APIs & services

Library

Credentials

OAuth consent screen

Page usage agreements

Credentials

[+ CREATE CREDENTIALS](#) [DELETE](#) [RESTORE DELETED CREDENTIALS](#)

Create credentials to access your project

API Keys

☐ Name

No API keys to display

OAuth 2.0 Client IDs

API key
Identifies your project using a simple API key to check quota and access

OAuth client ID
Requests user consent so your app can access the user's data

Service account
Enables server-to-server, app-level authentication using robot accounts

Help me choose
Asks a few questions to help you decide which type of credential to use

[CONFIGURE CONSENT SCREEN](#)

Restrictions Actions

Tạo thông tin xác thực (Credentials)

The image shows the Google Cloud console interface for creating an OAuth client ID. The top navigation bar includes the Google Cloud logo, a project selector (LuvinaTestGoogleOAuth), a search bar, and user profile icons. The left sidebar lists navigation options: API, APIs & Services, Enabled APIs & services, Library, Credentials, OAuth consent screen, and Page usage agreements. The main content area is titled 'Create OAuth client ID' and contains a warning message: 'To create an OAuth client ID, you must first configure your consent screen'. A red arrow points from this warning to a 'CONFIGURE CONSENT SCREEN' button. Below this, the 'OAuth consent screen' configuration page is shown, where the 'External' user type is selected. The 'CREATE' button is highlighted at the bottom of the configuration section. A right sidebar titled 'Learn' provides links to various OAuth-related topics.

Google Cloud LuvinaTestGoogleOAuth Search (/) for resources, docs, products, and more Search

API APIs & Services

Enabled APIs & services

Library

Credentials

OAuth consent screen

Page usage agreements

A client ID is used to identify a single app to Google's OAuth servers. If your app runs on multiple platforms, each will need its own client ID. See [Setting up OAuth 2.0](#) for more information. [Learn more](#) about OAuth client types.

To create an OAuth client ID, you must first configure your consent screen

CONFIGURE CONSENT SCREEN

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#) DISMISS **START FREE**

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API APIs & Services

Enabled APIs & services

Library

Credentials

OAuth consent screen

Page usage agreements

OAuth consent screen

Choose how you want to configure and register your app, including your target users. You can only associate one app with your project.

User Type

☐ Internal ?

Only available to users within your organization. You will not need to submit your app for verification. [Learn more about user type](#)

☒ **External** ?

Available to any test user with a Google Account. Your app will start in testing mode and will only be available to users you add to the list of test users. Once your app is ready to push to production, you may need to verify your app. [Learn more about user type](#)

CREATE

Learn

Google OAuth consent screen

What is the OAuth consent screen? ▾

What are OAuth consent scopes? ▾

What are sensitive API scopes? ▾

What are restricted API scopes? ▾

The app registration process

What information do I need? ▾

Will my app need to be verified by Google? ▾

Tạo thông tin xác thực (Credentials)

300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

LuvinaTestGoogleOAuth

Search (/) for resources, docs, products, and more



Edit app registration

1 OAuth consent screen — 2 Scopes — 3 Test users — 4 Summary

App information

This shows in the consent screen, and helps end users know who you are and contact you

App name *

UngDungXacThucQuaOAuth2

The name of the app asking for consent

User support email *

manhhungp7@gmail.com

For users to contact you with questions about their consent. [Learn more](#)

Tạo thông tin xác thực (Credentials)

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Google Cloud LuvinaTestGoogleOAuth Search (/) for resources, docs, products, and more Search

APIs & Services

Enabled APIs & services

Library

Credentials

OAuth consent screen

Page usage agreements

Credentials

+ CREATE CREDENTIALS DELETE RESTORE DELETED CREDENTIALS

Create credentials to access your project

API Keys

API key
Identifies your project using a simple API key to check quota and access

OAuth client ID
Requests user consent so your app can access the user's data

Service account
Enables server-to-server, app-level authentication using robot accounts

Help me choose
Asks a few questions to help you decide which type of credential to use

Name	Creation date	Type
No OAuth clients to display		

LuvinaTestGoogleOAuth Search (/) for resources, docs, products, and more

Create OAuth client ID

A client ID is used to identify a single app to Google's OAuth servers. If your app runs on multiple platforms, each will need its own client ID. See [Setting up OAuth 2.0](#) for more information. [Learn more](#) about OAuth client types.

Application type *

Web application

Android

Chrome Extension

iOS

TVs and Limited Input devices

Desktop app

Universal Windows Platform (UWP)

Tạo thông tin xác thực (Credentials)

Authorized JavaScript origins

For use with requests from a browser

URIs 1 *
http://localhost:8080

+ ADD URI

Authorized redirect URIs

For use with requests from a web server

+ ADD URI

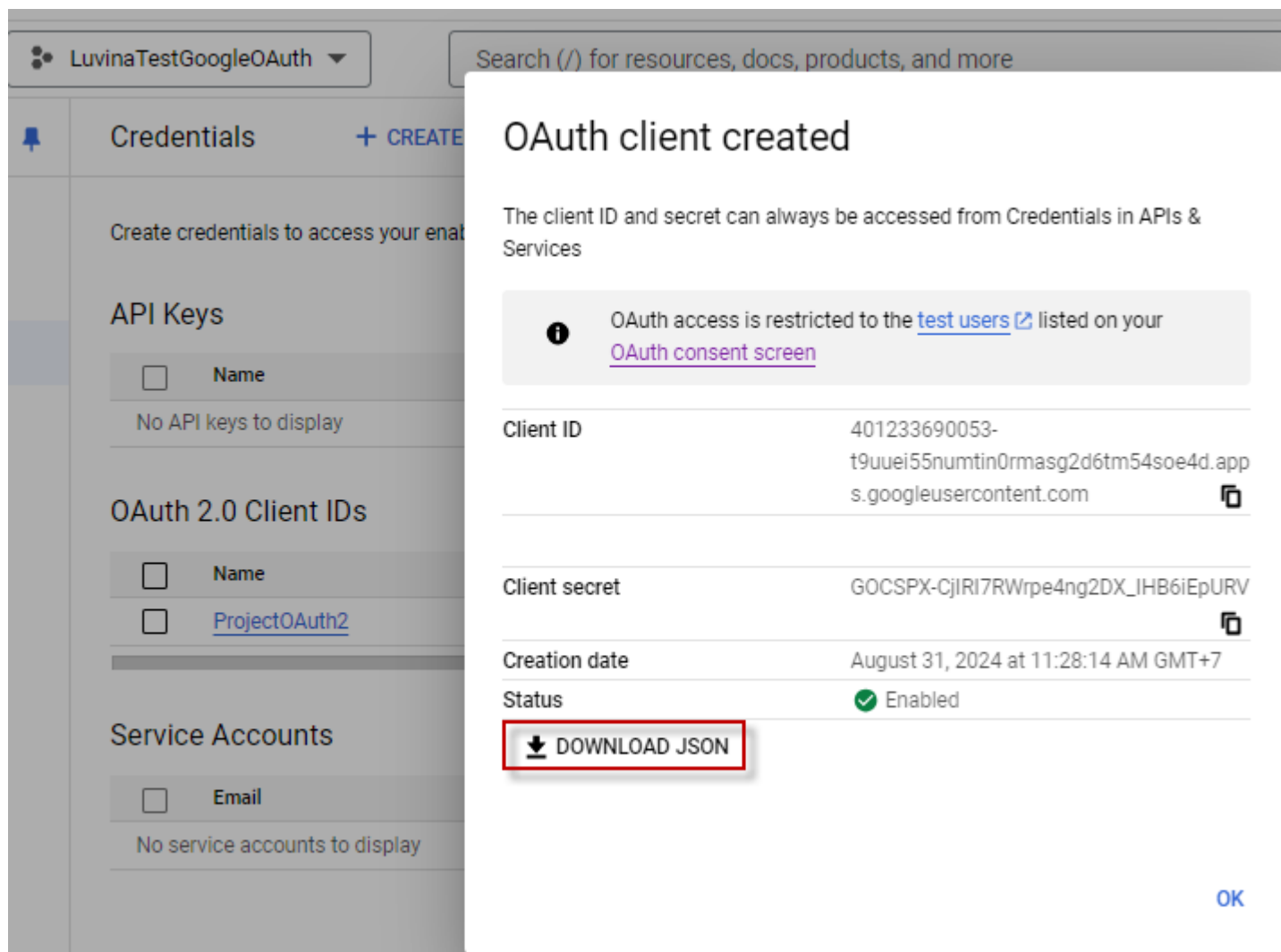
Note: It may take 5 minutes to a few hours for settings to take effect

CREATE

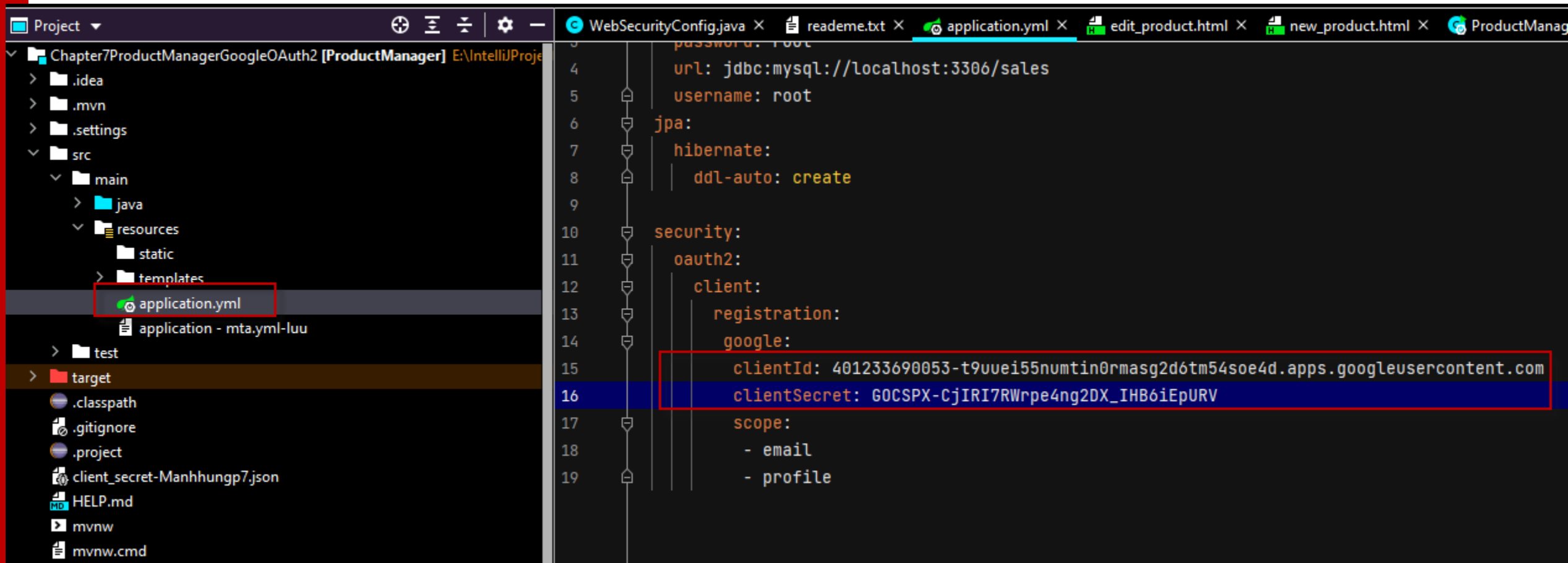
CANCEL

Tạo thông tin xác thực (Credentials)

Download Client ID và Client Secret



Điền Client ID, Client Secret vào ứng dụng



The screenshot shows an IDE interface with a project explorer on the left and a code editor on the right. The project explorer shows the file structure of a project named 'Chapter7ProductManagerGoogleOAuth2 [ProductManager]'. The file 'application.yml' is highlighted in the 'resources' folder. The code editor displays the contents of 'application.yml', which includes database configuration, JPA settings, and OAuth2 client configuration. The OAuth2 client configuration is highlighted with a red box, showing the 'clientId' and 'clientSecret' values.

```
password: root
4 url: jdbc:mysql://localhost:3306/sales
5 username: root
6 jpa:
7 hibernate:
8   ddl-auto: create
9
10 security:
11   oauth2:
12     client:
13       registration:
14         google:
15           clientId: 401233690053-t9uuei55numtin0rmasg2d6tm54soe4d.apps.googleusercontent.com
16           clientSecret: GOCSPX-CjIRI7RWrp4ng2DX_IHB6iEpURV
17       scope:
18         - email
19         - profile
```

Demo ứng dụng

localhost:8080/login

Please Login

Login with Google

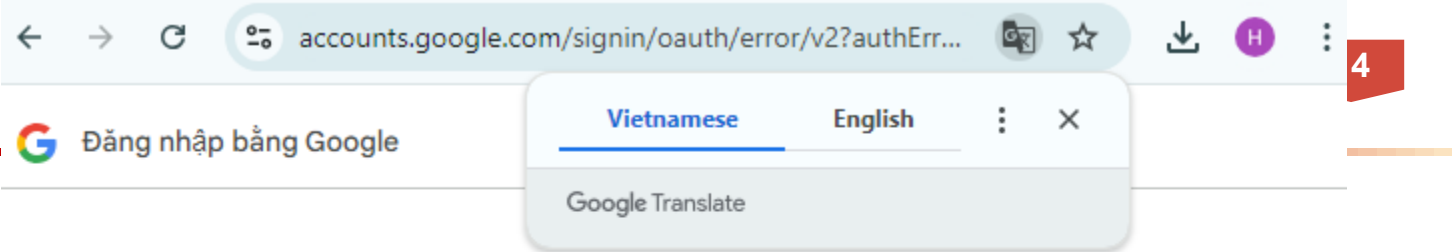
OR

user1

.....

Login

Lấy thông tin điền sân OAuth của google.



Đã chặn quyền truy cập: Yêu cầu của ứng dụng này không hợp lệ

manhhungp7@gmail.com

Đã chặn quyền truy cập

Lỗi 400: redirect_uri_mismatch

Bạn không thể đăng nhập vào ứng dụng này vì ứng dụng không tuân thủ chính sách OAuth 2.0 của Google.

Nếu bạn là nhà phát triển của ứng dụng này, hãy đăng ký URI chuyển hướng trong Google Cloud Console.

Chi tiết yêu cầu: redirect_uri=http://localhost:8080/login/oauth2/code/google_flowName=GeneralOAuthFlow

[Tài liệu liên quan dành cho nhà phát triển](#)

Xong

Điền giá trị redirect URIs

Authorized redirect URIs ?

For use with requests from a web server

URIs 1 *
http://localhost:8080/login/oauth2/code/google

+ ADD URI

Note: It may take 5 minutes to a few hours for settings to take effect

SAVE

CANCEL

Please Login

Login with Google

OR

E-mail

Password

Login

 Đăng nhập bằng Google

Chọn tài khoản

để tiếp tục tới [UngDungXacThucQuaOAuth2](#)



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Sử dụng một tài khoản khác