

Adding Google Authentication to Laravel 8 Website

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Kenpachi Zarak

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With social authentication, users do not have to fill out forms in order to register on your website; they also do not need to remember another password in order to access their accounts on your website. This article will provide a step-by-step process to add Google authentication to your website

Assumptions:

This tutorial assumes that you have PHP and Composer installed on your computer. It also uses XAMPP's Apache and MySQL installations. It is therefore assumed that the reader is familiar with XAMPP. Visit the [Composer](#) and [XAMPP](#) websites to download them.

1. Create a new Laravel project

Run the following on your command line to create a new Laravel project called social-auth

```
composer create-project laravel/laravel social-auth
```

2. Configure your database setup

You can do this in two steps:

1. Create a new database called “” in phpMyAdmin
2. Edit your file with the appropriate details as shown below

```
10 DB_CONNECTION=mysql
11 DB_HOST=127.0.0.1
12 DB_PORT=3306
13 DB_DATABASE=social-auth
14 DB_USERNAME=root
15 DB_PASSWORD=
16
```

3. Setup your basic authentication system with Laravel Breeze

Laravel 8 provides three free authentication starter packages: [Laravel Breeze](#), [Laravel Jetstream](#), and [Laravel Fortify](#). For this tutorial, we will be using Laravel Breeze. Feel free to use whichever you want. It should not make a difference for what we need to do here.

To setup Laravel Breeze, run the following lines **in the order they appear** on your command line:

```
composer require laravel/breeze --devphp artisan breeze:installnpm installnpm run devphp artisan migrate
```

4. Install Laravel Socialite and add providers and aliases in your config file

Run the following line on your command line to install Laravel Socialite

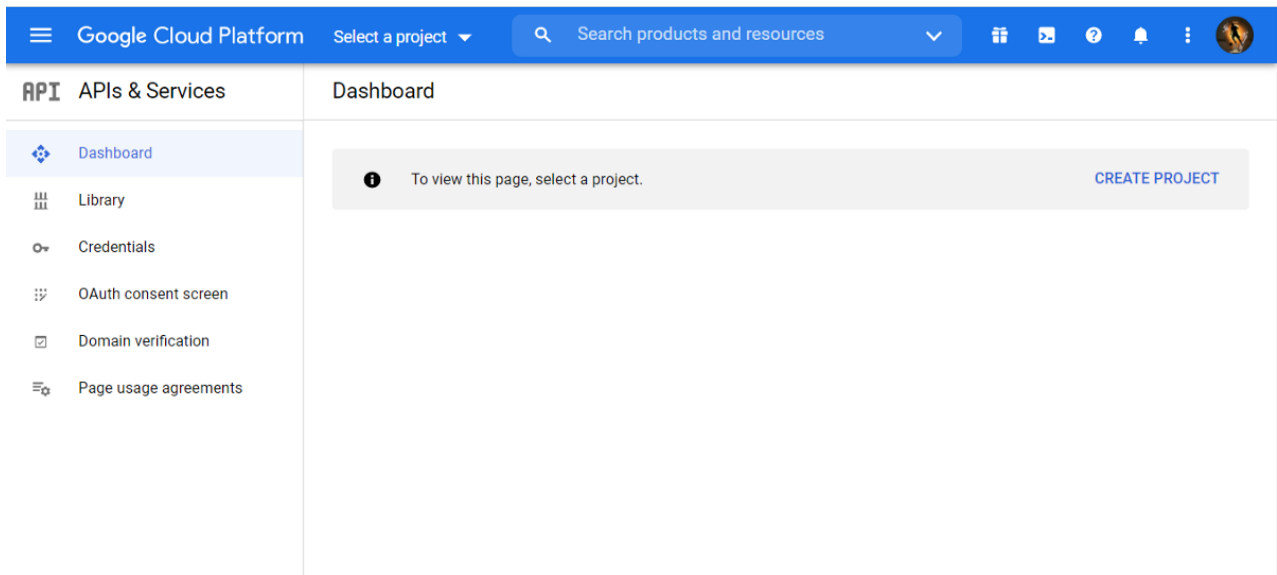
```
composer require laravel/socialite
```

In your add Socialite to your and arrays thus:

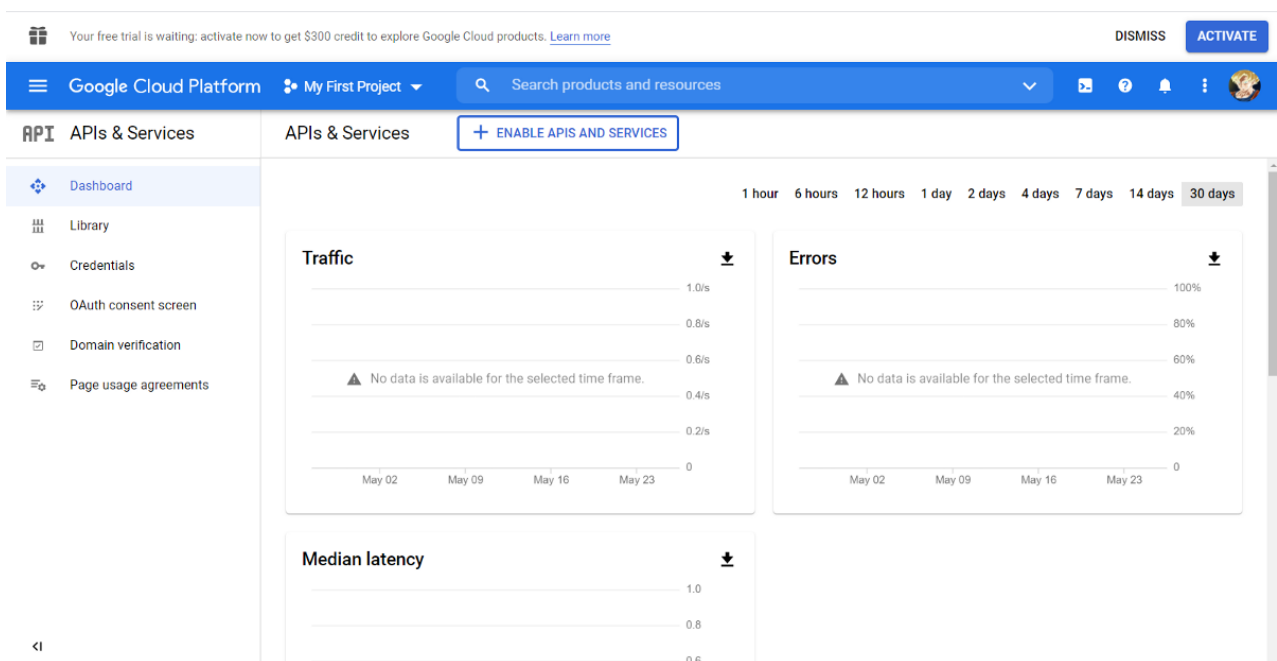
```
.....'providers' => [    ....    ....
Laravel\Socialite\SocialiteServiceProvider::class,], 'aliases' => [    ....    ....
'Socialite' => Laravel\Socialite\Facades\Socialite::class,],.....
```

5. Create a new Google app

Follow [this link](#) to create a new Google app. It will take you to a page that looks like the one shown below if you are doing this for the first time :



If you have done something like this before, the page will look something like this. The rest of the tutorial is based on the assumption that you are doing this for the first time.



When on the page do the following:

1. Click the “CREATE PROJECT” link. Provide required details for the resulting page.



New Project



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

[MANAGE QUOTAS](#)

Project name *

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Project ID: skillful-mason-316210. It cannot be changed later. [EDIT](#)

Location *

No organization

[BROWSE](#)

Parent organization or folder

CREATE

CANCEL

2. Click the Credentials option on the sidebar

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APIs & Services

Dashboard

Library

Credentials

OAuth consent screen

Domain verification

Page usage agreements

Credentials

+ CREATE CREDENTIALS

DELETE

Create credentials to access your enabled APIs. [Learn more](#)

Remember to configure the OAuth consent screen with information about your application.

CONFIGURE CONSENT SCREEN

API Keys

Name

Creation date ↓

Restrictions

Key

No API keys to display

OAuth 2.0 Client IDs

Name

Creation date ↓

Type

Client ID

No OAuth clients to display

Service Accounts

Email

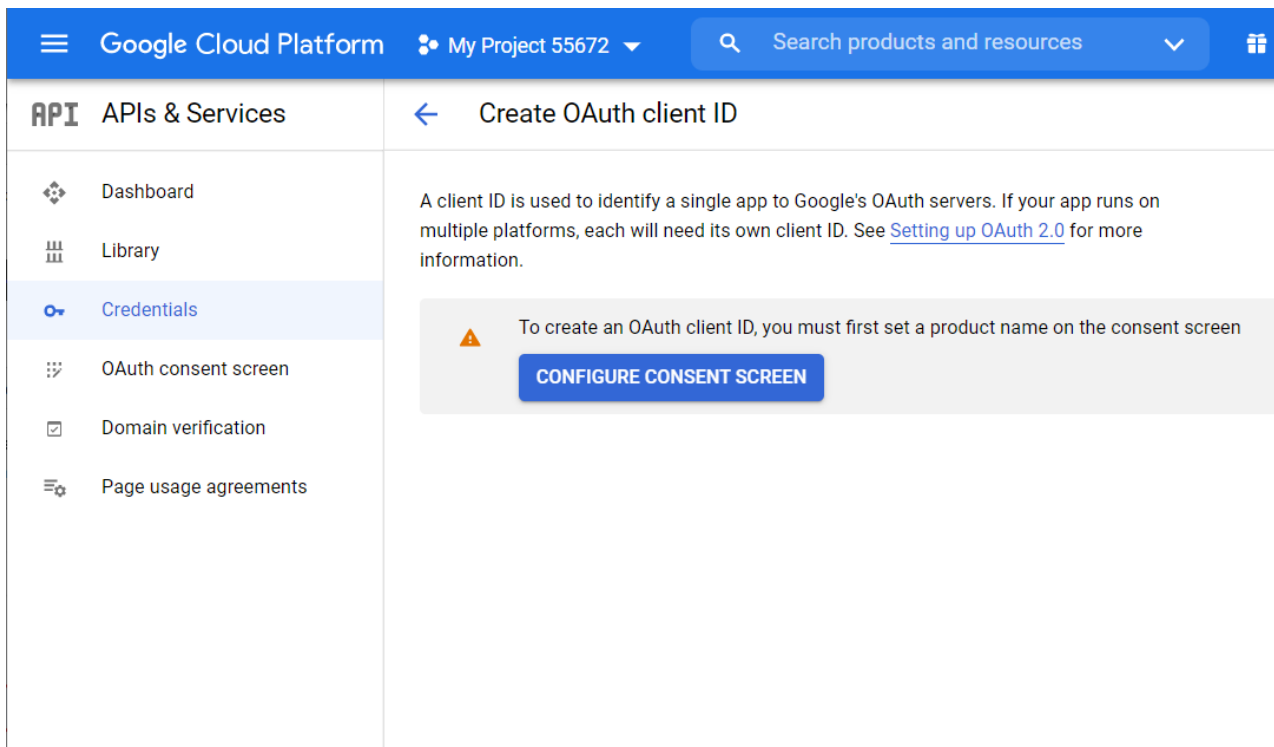
Name ↑

No service accounts to display

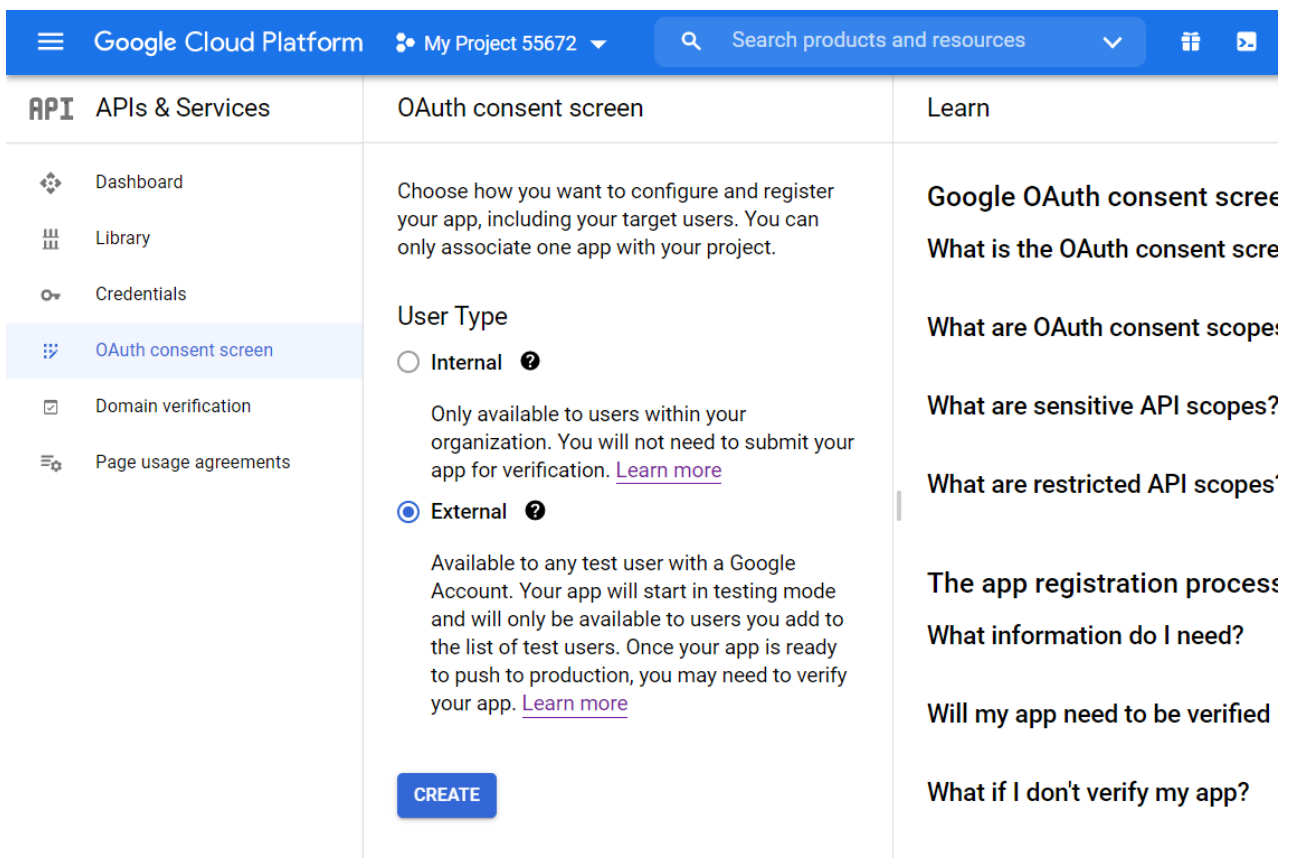
[Manage service ac](#)

3. Click the “**CREATE CREDENTIALS**” item on the navbar and select the “**OAuth Client ID**” option from the resulting dropdown widget.

4. Click the “**CONFIGURE CONSENT SCREEN**” button.



5. For this case, I'll pick the “**External**” option. Feel free to pick whichever works for you.



6. Fill the next form with the appropriate data and click the “SAVE AND CONTINUE” button

The screenshot shows the 'Edit app registration' page in the Google Cloud Platform console, specifically the 'OAuth consent screen' tab. The left sidebar lists navigation options: Dashboard, Library, Credentials, OAuth consent screen (selected), Domain verification, and Page usage agreements. The main content area is titled 'Edit app registration' and has a progress bar with four steps: 1. OAuth consent screen (active), 2. Scopes, 3. Test users, and 4. Summary. Below the progress bar, the 'App information' section contains the following fields: 'App name *' with the value 'social-auth', 'User support email *' with a dropdown menu, and 'App logo' with a 'BROWSE' button. A red error message 'An email address must be selected' is visible below the email field. To the right, a preview of the consent screen is shown, titled 'How is this info presented to users?'. It displays a sample consent screen with a 'Sign in with Google' button, a user profile, and a list of permissions. The preview includes numbered callouts 1 through 4 pointing to different elements of the screen.

7. Click the “ADD OR REMOVE SCOPES” button to add permissions users should authorize in the login process.

The screenshot shows the 'Edit app registration' page in the Google Cloud Platform console, specifically the 'Scopes' tab. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Edit app registration' and has a progress bar with four steps: 1. OAuth consent screen, 2. Scopes (active), 3. Test users, and 4. Summary. Below the progress bar, the 'Scopes' section contains the following elements: a description of scopes, a link to 'Learn more', and an 'ADD OR REMOVE SCOPES' button. Below this, there are two sections: 'Your non-sensitive scopes' and 'Your sensitive scopes'. The 'Your non-sensitive scopes' section contains a table with columns 'API', 'Scope', and 'User-facing description'. The table is currently empty, with the text 'No rows to display' below it. The 'Your sensitive scopes' section contains a description of sensitive scopes.

Google Cloud Platform

APIs & Services

Dashboard
Library
Credentials
OAuth consent screen
Domain verification
Page usage agreements

Update selected scopes

Only scopes for enabled APIs are listed below. To add a missing scope to this screen, find and enable the API in the [Google API Library](#) or use the Pasted Scopes text box below. Refresh the page to see any new APIs you enable from the Library.

| API | Scope | User-facing description |
|---------------------------------------|-----------------------------------|--|
| <input checked="" type="checkbox"/> | .../auth/userinfo.email | See your primary Google Account email address |
| <input checked="" type="checkbox"/> | .../auth/userinfo.profile | See your personal info, including any personal info you've made publicly available |
| <input type="checkbox"/> | openid | Associate you with your personal info on Google |
| <input type="checkbox"/> BigQuery API | .../auth/bigquery | View and manage your data in Google BigQuery |
| <input type="checkbox"/> BigQuery API | .../auth/cloud-platform | See, edit, configure, and delete your Google Cloud Platform data |
| <input type="checkbox"/> BigQuery API | .../auth/bigquery.readonly | View your data in Google BigQuery |
| <input type="checkbox"/> BigQuery API | .../auth/cloud-platform.read-only | View your data across Google Cloud Platform services |
| <input type="checkbox"/> BigQuery API | .../auth/devstorage.full_control | Manage your data and permissions in Google Cloud Storage |
| <input type="checkbox"/> BigQuery API | .../auth/devstorage.read_only | View your data in Google Cloud Storage |

After picking your scopes, scroll down to the bottom of the page and click the **“UPDATE”** button.

8. Add test users on the next page using their email

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Edit app registration

☒ OAuth consent screen — ☒ Scopes — **3 Test users** — 4 Summary

Test users

While publishing status is set to "Testing", only test users are able to access the app. Allowed user cap prior to app verification is 100, and is counted over the entire lifetime of the app. [Learn more](#)

+ ADD USERS

Filter

User information

No rows to display

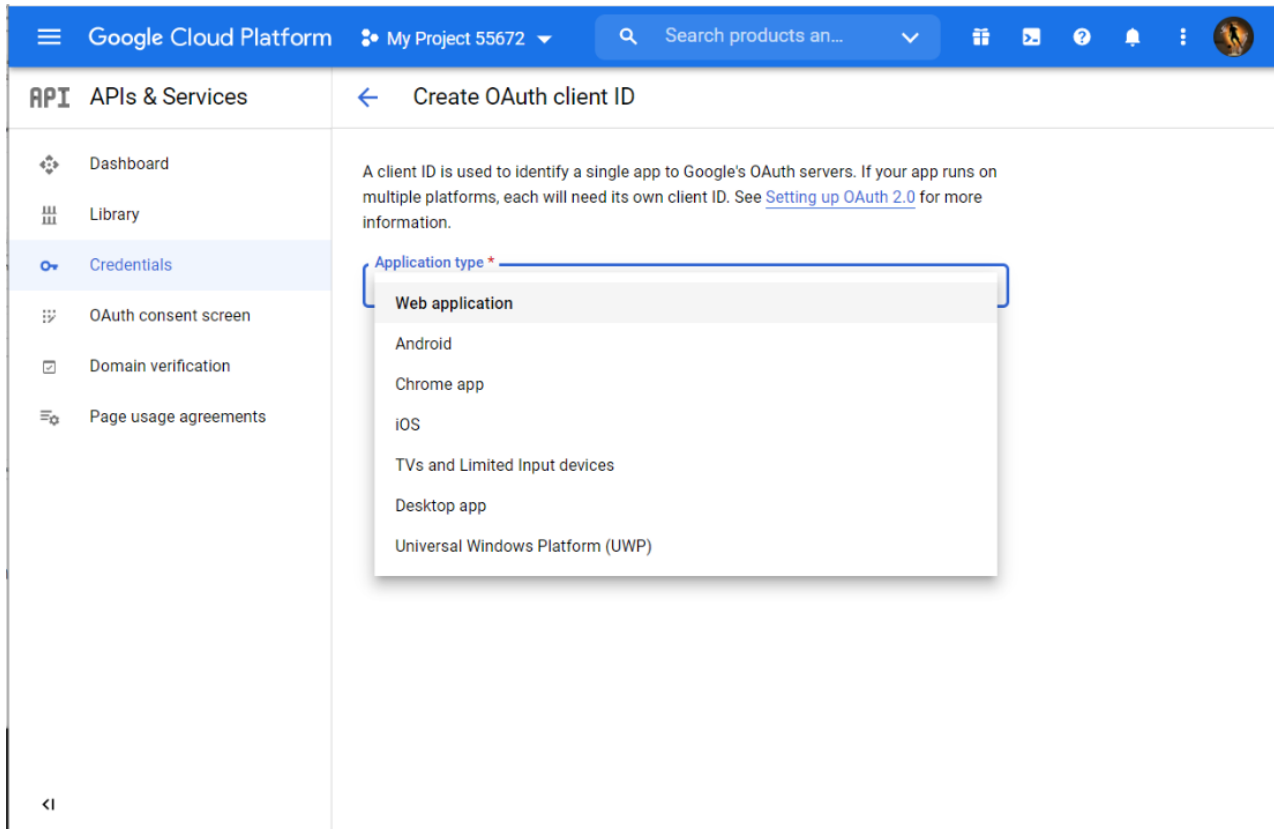
SAVE AND CONTINUE

CANCEL

On the summary page that appears after this one, click the “RETURN TO DASHBOARD” button.

9. Go back to the credentials page and create new credentials as explained in **step 3**.

10. Provide details as shown in the screenshots below and click the “**CREATE**” button.



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API APIs & Services

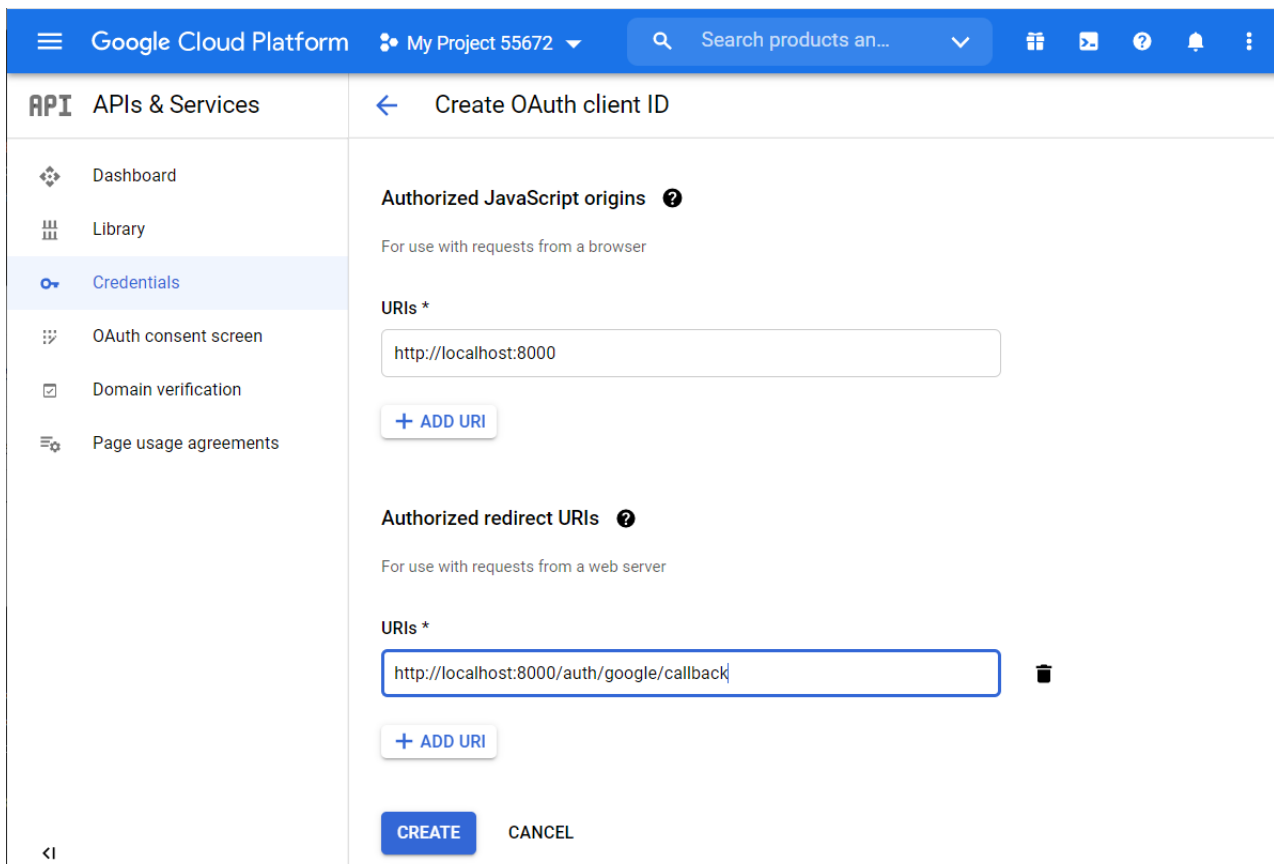
Dashboard
Library
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Create OAuth client ID

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.

Application type *

- Web application
- Android
- Chrome app
- iOS
- TVs and Limited Input devices
- Desktop app
- Universal Windows Platform (UWP)



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API APIs & Services

Dashboard
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Create OAuth client ID

Authorized JavaScript origins ?

For use with requests from a browser

URIs *

http://localhost:8000

+ ADD URI

Authorized redirect URIs ?

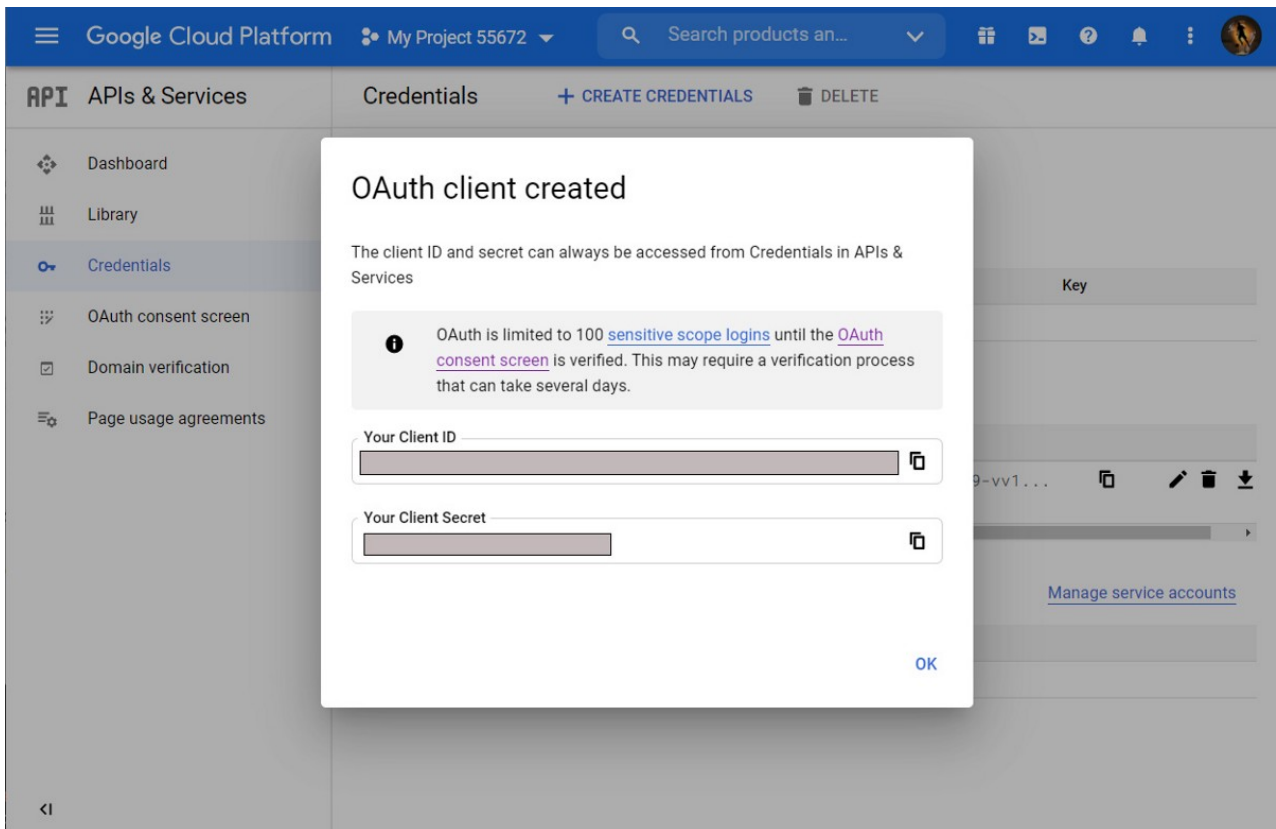
For use with requests from a web server

URIs *

http://localhost:8000/auth/google/callback

+ ADD URI

CREATE CANCEL



Add a Google entry to your file.

```
return [
    ....
    ....
    ....
    'google' => [
        'client_id' => env('GOOGLE_CLIENT_ID'),
        'client_secret' => env('GOOGLE_CLIENT_SECRET'),
        'redirect' => env('GOOGLE_CLIENT_REDIRECT'),
    ],
]
```

Add the following to your . file

```
GOOGLE_CLIENT_ID="Your Google app id"GOOGLE_CLIENT_SECRET="Your Google client secret"GOOGLE_CLIENT_REDIRECT="http://localhost:8000/auth/google/callback"
```

6. Add a “google_id” column to your “users” table

Run the following line in your command line to create the migration file to add a *google_id* column the users table

```
php artisan make:migration add_google_id_to_users_table
```

Make the following changes to the file created.

```

database > migrations > 2021_06_08_120214_add_google_id_to_users_table.php
1  <?php
2
3  use Illuminate\Database\Migrations\Migration;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Support\Facades\Schema;
6
7  class AddGoogleIdToUsersTable extends Migration
8  {
9      /**
10       * Run the migrations.
11       *
12       * @return void
13       */
14     public function up()
15     {
16         Schema::table('users', function (Blueprint $table) {
17             $table->string('google_id')->nullable();
18         });
19     }
20
21     /**
22      * Reverse the migrations.
23      *
24      * @return void
25      */
26     public function down()
27     {
28         Schema::table('users', function (Blueprint $table) {
29             $table->dropColumn('google_id');
30         });
31     }
32 }
33

```

Run the following line on your command line to update your database

```
php artisan migrate:fresh
```

7. Setup your Google authentication routes

Add the following lines to your file.

```

use App\Http\Controllers\SocialController; //Google Authentication
Route::get('auth/google', [SocialController::class,
'googleRedirect']);
Route::get('auth/google/callback', [SocialController::class,
'googleLoginOrRegister']);

```

8. Create and configure controller to handle the routes

Run the following line on your command line to create a controller to handle social authentication.

```
php artisan make:controller SocialController
```

Define *googleRedirect()* and *googleCallback()* as shown below:

```

app > Http > Controllers > SocialController.php
1  <?php
2
3  namespace App\Http\Controllers;
4  use Illuminate\Http\Request;
5  use Laravel\Socialite\Facades\Socialite;
6  use Illuminate\Support\Facades\Auth;
7  use App\Models\User;
8
9  class SocialController extends Controller
10 {
11     public function googleRedirect(){
12         return Socialite::driver('google')->redirect();
13     }
14     // google callback
15     public function googleCallback()
16     {
17         $user = Socialite::driver('google')->user();
18
19         $this->_registerOrLoginGoogleUser($user);
20
21         // Return home after login
22         return redirect()->route('dashboard');
23     }
24     protected function _registerOrLoginGoogleUser($incomingUser)
25     {
26         $user = User::where('google_id', $incomingUser->id)->first();
27         if (!$user) {
28             $user = new User();
29             $user->name = $incomingUser->name;
30             $user->email = $incomingUser->email;
31             $user->google_id = $incomingUser->id;
32             $user->password = encrypt('password'); //make password nullable
33             $user->save();
34         }
35         Auth::login($user);
36     }
37 }
38
39

```

9. Add Google login button to your registration and login pages

Add a copy of the link below to both the *register.blade.php* and *login.blade.php* in the **resources\views\auth** folder

```

<div class="flex items-center justify-center mt-4"> <a href="{{
route('login.google') }}" class="underline text-sm text-gray-600 hover:text-gray-
900"> Login With Google </a></div>

```