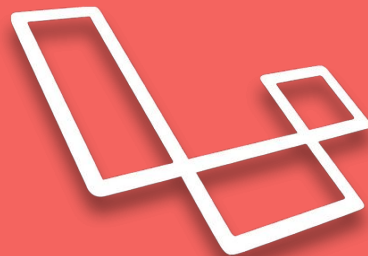


# Content

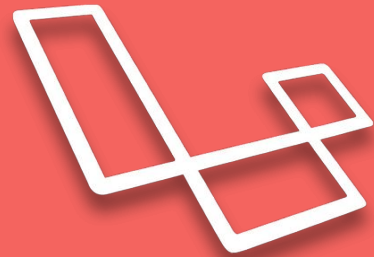
- **Laravel >= 5.5 Eloquent Api Resource**
- **Laravel Passport**
- **Laravel Socialite**



# Eloquent Api Resource

- What Is **API**:-

<https://www.youtube.com/watch?v=s7wmiS2mSXY>



# Eloquent Api Resource

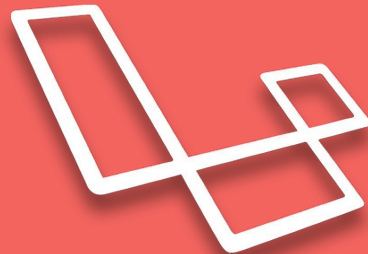
- What Is **Rest (Representational State Transfer)** :-

It's an **architectural style** for providing standards between computer systems on the web

In **Rest** we are talking about **resources** (nouns) like (**user resource** , **post resource** ,... )

<https://www.codecademy.com/articles/what-is-rest>

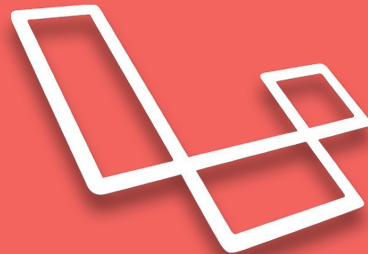
<https://restfulapi.net/rest-architectural-constraints/>



# Eloquent Api Resource

- This feature introduced in **Laravel 5.5**
- It's a **transformation layer** that sits between **Eloquent Model** & **Json Response**

<https://laravel.com/docs/master/eloquent-resources#introduction>

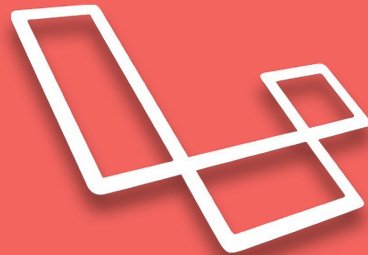


# Laravel Passport

- What Is OAuth (Open Authorization) :-

open protocol to allow secure authorization in a simple and standard method from web, mobile and desktop applications

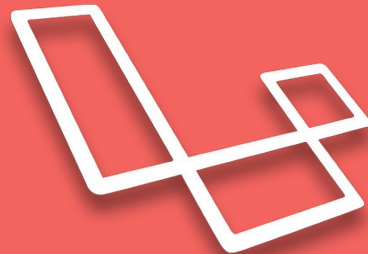
<https://oauth.net/>



# Laravel Passport

- Laravel **Passport** is a package that **implements OAuth** to allow us make **API Authentication**
- Api **don't maintain session state** between requests
- **Grant Type** refers to the way an application gets access token
- The **Grant Type** are essentially a “**mode**” in which the OAuth server will run, **expecting different inputs** and maybe **providing different outputs** (**Build Api's You Won't Hate Book Chapter 9 Page 107**)

<https://laravel.com/docs/master/passport#installation>



POST	http://laravel-preparation.dev/api/oauth/token	Params	Send	Save
------	--	--------	------	------

Authorization Headers (1) Body ● Pre-request Script Tests Cookies Code

☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> client_id	2			
<input checked="" type="checkbox"/> client_secret	S2N499WG66O2p2c8BWbjRDv9WR8es7SvlccjX5eX			
<input checked="" type="checkbox"/> username	admin@admin.com			
<input checked="" type="checkbox"/> password	admin			
<input checked="" type="checkbox"/> grant_type	password			
New key	Value	Description		

[Body](#) [Cookies](#) [Headers \(12\)](#) [Test Results](#) [Status: 200 OK](#) [Time: 1543 ms](#) [Size: 2.17 KB](#)

Pretty Raw Preview JSON 

[illegible]



GET

http://laravel-preparation.dev/api/users

Params

Send

Save

Authorization

Headers (2)

Body

Pre-request Script

Tests

Cookies Code

	Key	Value	Description	...	Bulk Edit	Presets ▼
✓	Accept	application/json				
✓	Authorization	Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6IjY...				
	New key	Value	Description			

Body

Cookies

Headers (12)

Test Results

Status: 200 OK

Time: 1285 ms

Size: 2.12 KB

Pretty

Raw

Preview

JSON ▼

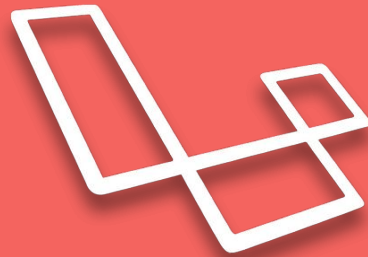


```
1 {
2   "data": [
3     {
4       "object": "User",
5       "id": "8mqg63w6p9pzyox4",
6       "name": "First Name",
7       "slug": null,
8       "email": "student@mail.com",
9       "confirmed": false,
10      "profile_image": null,
11      "avatar_image": null,
12      "gender": null,
13      "birth": null,
14      "social_auth_provider": null,
15      "social_id": null,
16      "social_avatar": {
17        "avatar": null,
18        "original": null
19      },
20      "created_at": {
21        "date": "2018-03-09 15:09:35.000000",
22        "timezone_type": 3,
23        "timezone": "UTC"
24      }
25    }
26  ]
27 }
```

# Laravel Socialite

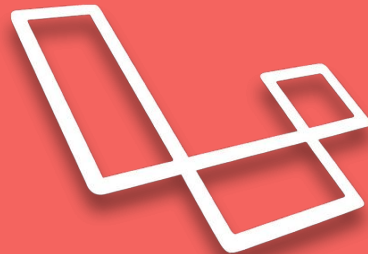
- Laravel **Socialite** is a package that provides **authentication** to **OAuth providers** like (Facebook , Twitter , ...)

<https://laravel.com/docs/5.6/socialite#introduction>



# Lab 3 (part 1)

- Install Laravel **Passport**
- Make two endpoints (**api/posts GET** , **api/posts POST**) to **get all posts** and another one to **store a single post**
- Add **Authentication middleware** on the two endpoints
- In the **api/posts GET** you must use **Eloquent Api Resource with pagination** , in the response each post must include the post creator info using **UserResource**
- Apply **Eager Loading** when getting **all posts** to include the **user relation** to enhance performance

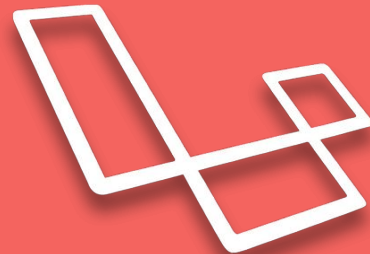


# Lab 3 (part 2)

- Install Laravel **Socialite**
- Allow login with **facebook & google +** and **store user info** for both providers , make sure when **logout and login** again to **not duplicate** the records

Hint :- make another table for social authentication accounts **if it will help you** (Again it's your decision to wither make it or not) , also i think in this approach you will need to check the multi guard authentication

- Bonus :- when i **login with email & password** ,make two buttons that allow me to **connect** my facebook or google + account , and after i connect **one of the accounts or both** , the buttons are changed to be **show facebook info** for example to **show the connected social account info**



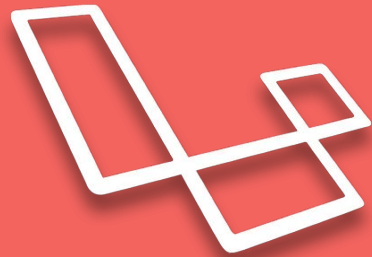
# Thank You

- These slides are based on  
Laravel Up & Running Book  
<http://shop.oreilly.com/product/0636920044116.do>

Taylor Otwel Talk At Laracon Online March-2017

Matt Stuffer Talk At Laracon Online March-2017

Laravel Documentation  
<https://laravel.com/docs/master>



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