Digging the gems: Discovering Laravel Built-in Classes and its use cases.

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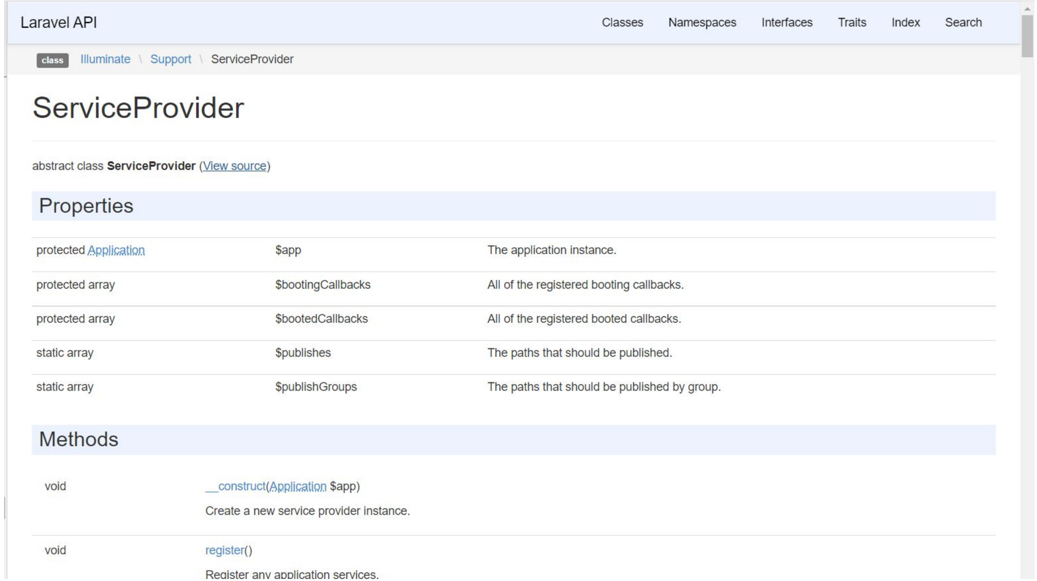
SOME DISCOVERIES IN THE ILLUMINATE PACKAGE.



ServiceProvider

abstract class **ServiceProvider** (View source)

Properties

protected Application	$app	The application instance.
protected array	$bootingCallbacks	All of the registered booting callbacks.
protected array	$bootedCallbacks	All of the registered booted callbacks.
static array	$publishes	The paths that should be published.
static array	$publishGroups	The paths that should be published by group.

Methods

void	__construct(Application $app) Create a new service provider instance.
void	register() Register any application services.

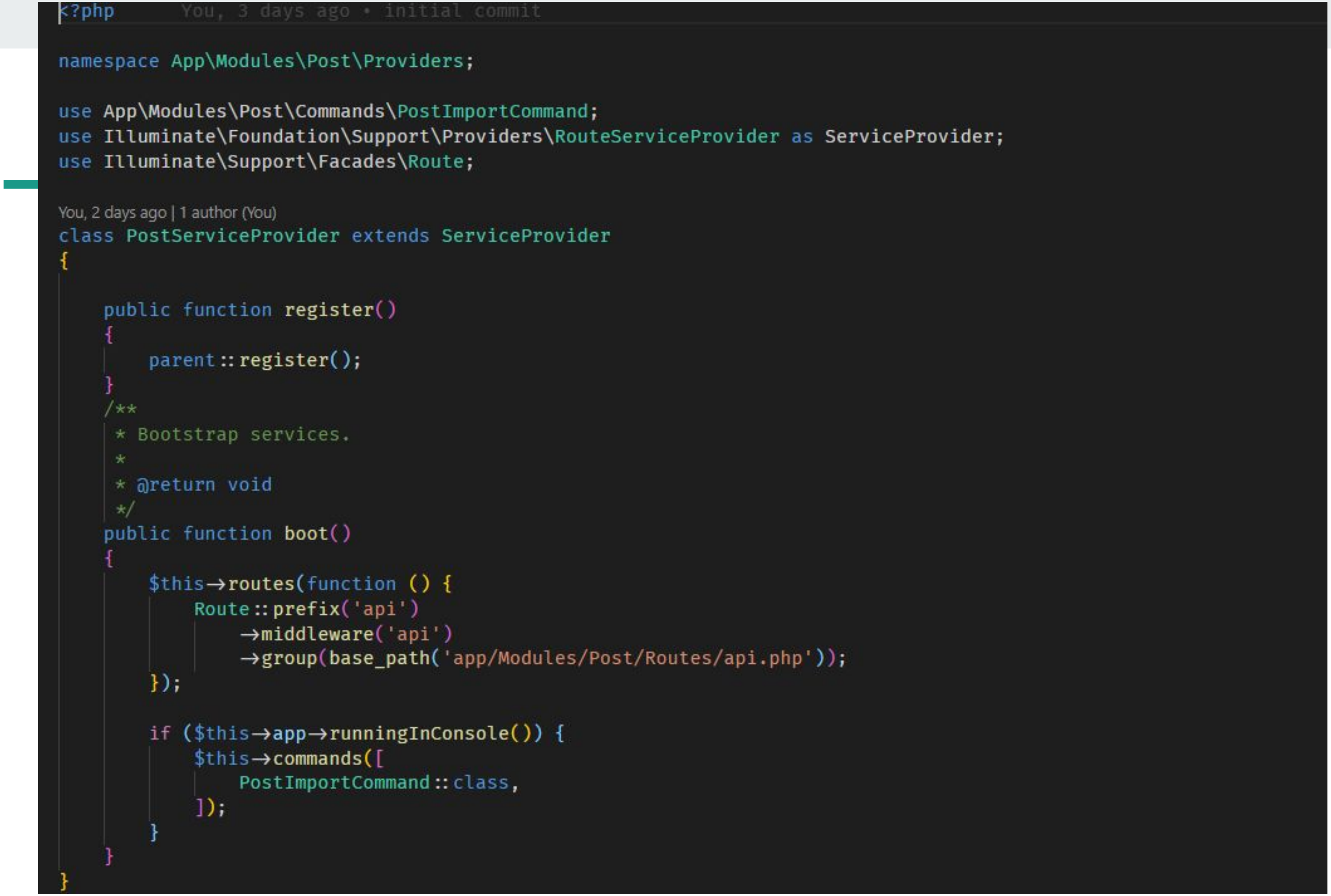
Illuminate\Support\ServiceProvider

Service Providers.

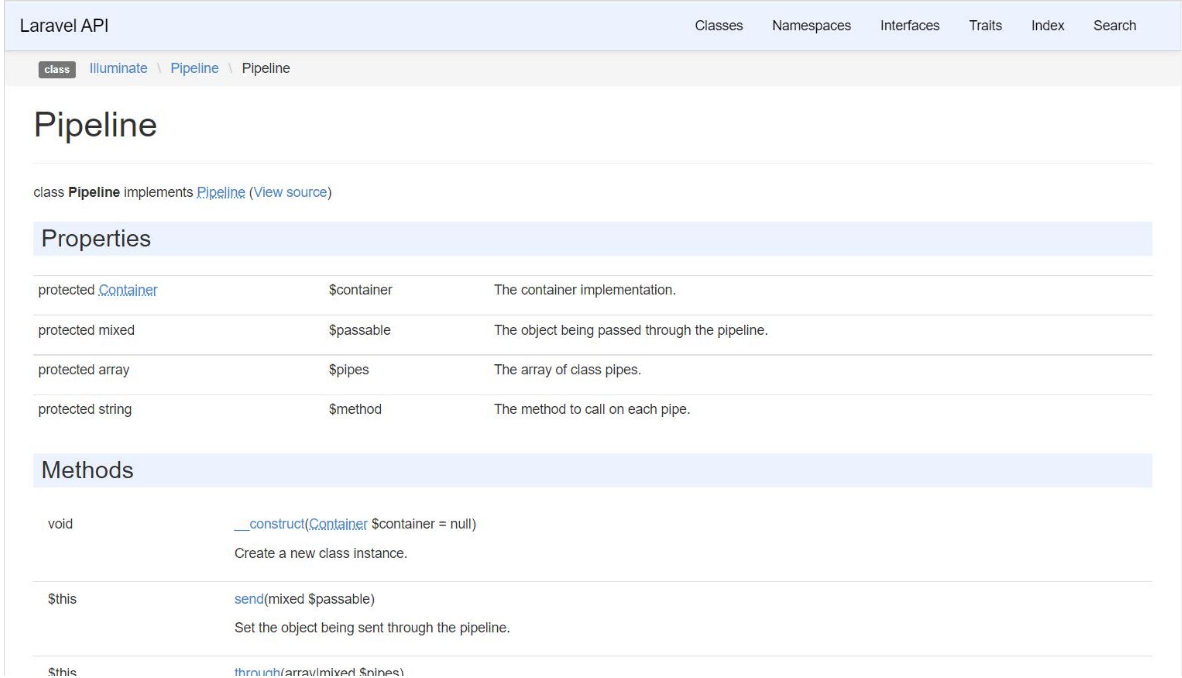
Service providers are the central place of all Laravel application bootstrapping. Your own application, as well as all of Laravel’s core services, are bootstrapped via service providers.

USE CASE:

CREATE REUSABLE MODULES FOR LARAVEL AND LUMEN.



```php
<?php      You, 3 days ago • initial commit

namespace App\Modules\Post\Providers;

use App\Modules\Post\Commands\PostImportCommand;
use Illuminate\Foundation\Support\Providers\RouteServiceProvider as ServiceProvider;
use Illuminate\Support\Facades\Route;

You, 2 days ago | 1 author (You)
class PostServiceProvider extends ServiceProvider
{

    public function register()
    {
        parent::register();
    }
    /**
     * Bootstrap services.
     *
     * @return void
     */
    public function boot()
    {
        $this->routes(function () {
            Route::prefix('api')
                ->middleware('api')
                ->group(base_path('app/Modules/Post/Routes/api.php'));
        });

        if ($this->app->runningInConsole()) {
            $this->commands([
                PostImportCommand::class,
            ]);
        }
    }
}
```



Pipeline

class **Pipeline** implements Pipeline (View source)

Properties

protected Container	$container	The container implementation.
protected mixed	$passable	The object being passed through the pipeline.
protected array	$pipes	The array of class pipes.
protected string	$method	The method to call on each pipe.

Methods

void	__construct(Container $container = null) Create a new class instance.
$this	send(mixed $passable) Set the object being sent through the pipeline.
$this	through(array|mixed $pipes)

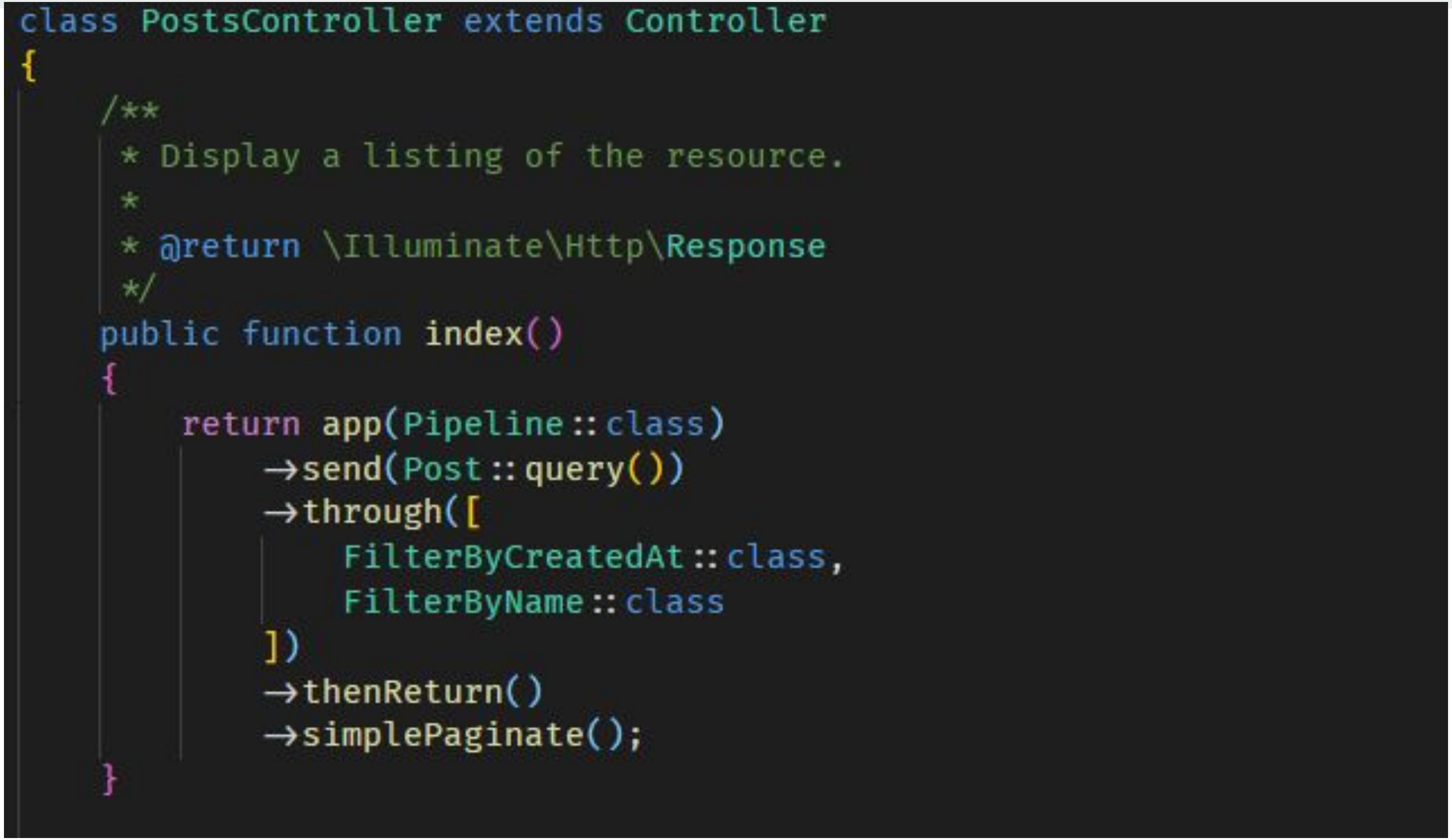
Illuminate\Pipeline\Pipeline

Pipeline

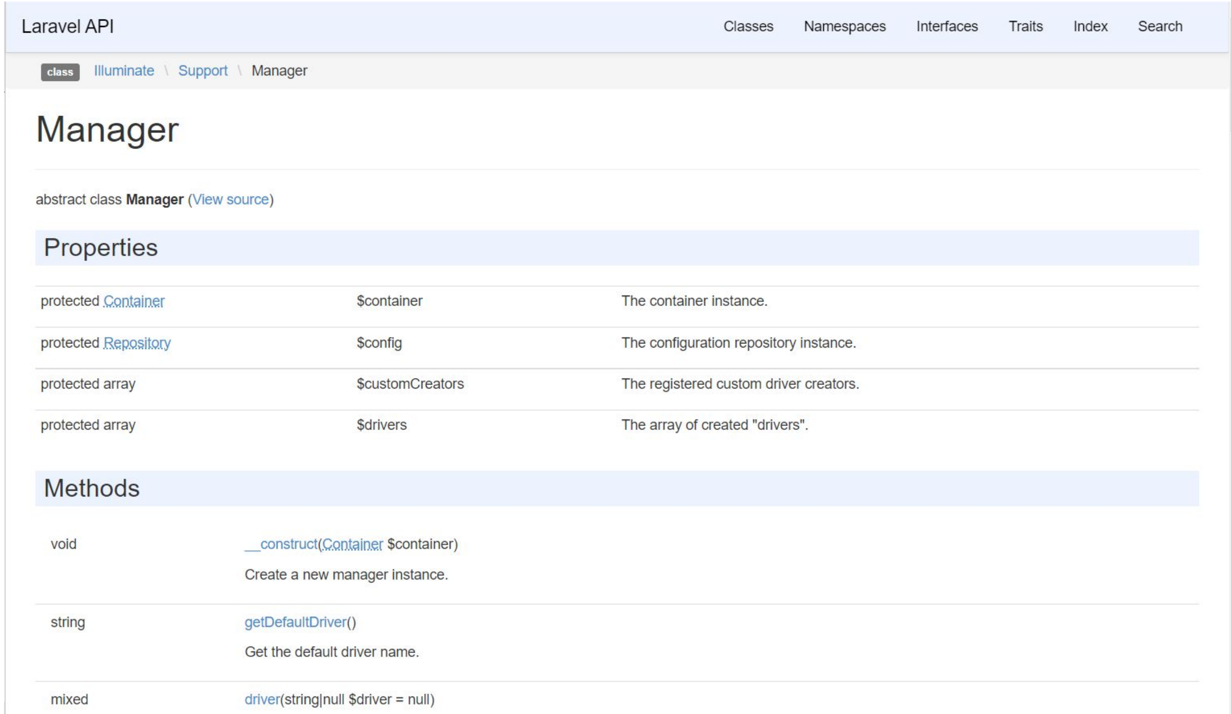
Using Laravel pipelines, you can pass an object between several classes in a fluid way to perform any type of task and finally return the resulting value once all the “tasks” have been executed.

USE CASE:

CREATE PLUG AND PLAY QUERY FILTERS FOR MODEL VIA CONTROLLER.



```php
class PostsController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {
        return app(Pipeline::class)
            ->send(Post::query())
            ->through([
                FilterByCreatedAt::class,
                FilterByName::class
            ])
            ->thenReturn()
            ->simplePaginate();
    }
```



Manager

abstract class **Manager** (View source)

Properties

protected Container	$container	The container instance.
protected Repository	$config	The configuration repository instance.
protected array	$customCreators	The registered custom driver creators.
protected array	$drivers	The array of created "drivers".

Methods

void	__construct(Container $container) Create a new manager instance.
string	getDefaultDriver() Get the default driver name.
mixed	driver(string|null $driver = null)

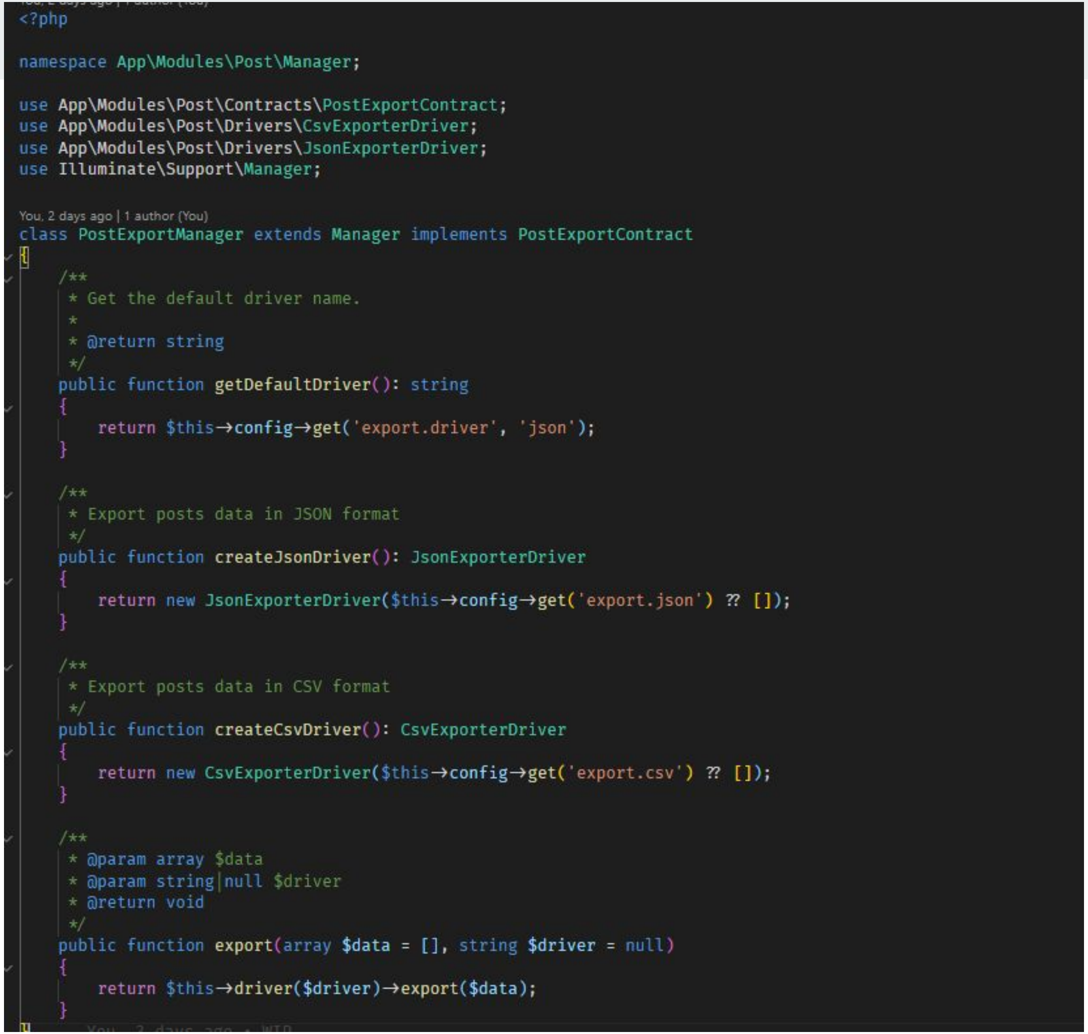
Illuminate\Support\Manager

Manager

There is a nice class called Manager that Laravel ships with out of the box and eases most of the pain of managing multiple drivers.

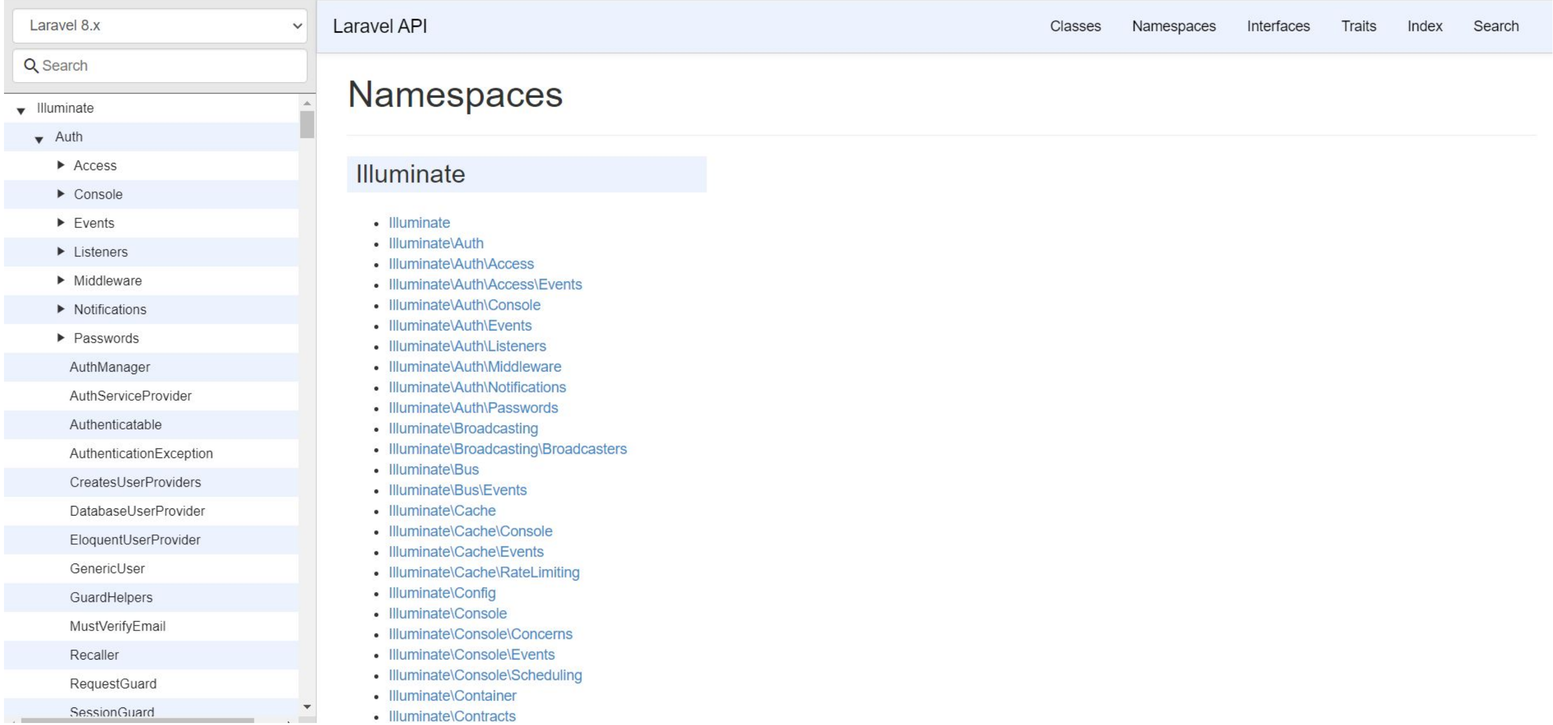
USE CASE:

CREATE MULTIPLE IMPLEMENTATIONS FOR A SINGLE ACTION.



```php
You, 2 days ago | 1 author (You)
<?php

namespace App\Modules\Post\Manager;

use App\Modules\Post\Contracts\PostExportContract;
use App\Modules\Post\Drivers\CsvExporterDriver;
use App\Modules\Post\Drivers\JsonExporterDriver;
use Illuminate\Support\Manager;

You, 2 days ago | 1 author (You)
class PostExportManager extends Manager implements PostExportContract
{
    /**
     * Get the default driver name.
     *
     * @return string
     */
    public function getDefaultDriver(): string
    {
        return $this->config->get('export.driver', 'json');
    }

    /**
     * Export posts data in JSON format
     */
    public function createJsonDriver(): JsonExporterDriver
    {
        return new JsonExporterDriver($this->config->get('export.json') ?? []);
    }

    /**
     * Export posts data in CSV format
     */
    public function createCsvDriver(): CsvExporterDriver
    {
        return new CsvExporterDriver($this->config->get('export.csv') ?? []);
    }

    /**
     * @param array $data
     * @param string|null $driver
     * @return void
     */
    public function export(array $data = [], string $driver = null)
    {
        return $this->driver($driver)->export($data);
    }
}       You, 2 days ago • WIP
```

Laravel API - https://laravel.com/api/8.x/



- Illuminate
  - Auth
    - Access
    - Console
    - Events
    - Listeners
    - Middleware
    - Notifications
    - Passwords
    - AuthManager
    - AuthServiceProvider
    - Authenticatable
    - AuthenticationException
    - CreatesUserProviders
    - DatabaseUserProvider
    - EloquentUserProvider
    - GenericUser
    - GuardHelpers
    - MustVerifyEmail
    - Recaller
    - RequestGuard
    - SessionGuard

Namespaces

Illuminate

- Illuminate
- Illuminate\Auth
- Illuminate\Auth\Access
- Illuminate\Auth\Access\Events
- Illuminate\Auth\Console
- Illuminate\Auth\Events
- Illuminate\Auth\Listeners
- Illuminate\Auth\Middleware
- Illuminate\Auth\Notifications
- Illuminate\Auth\Passwords
- Illuminate\Broadcasting
- Illuminate\Broadcasting\Broadcasters
- Illuminate\Bus
- Illuminate\Bus\Events
- Illuminate\Cache
- Illuminate\Cache\Console
- Illuminate\Cache\Events
- Illuminate\Cache\RateLimiting
- Illuminate\Config
- Illuminate\Console
- Illuminate\Console\Concerns
- Illuminate\Console\Events
- Illuminate\Console\Scheduling
- Illuminate\Container
- Illuminate\Contracts

References:

Service Providers

https://laravel.com/docs/8.x/providers

Pipelines

https://jeffochoa.me/understanding-laravel-pipelines

Manager

https://darkghosthunter.medium.com/laravel-the-hidden-manager-that-helps-you-with-any-driver-1a534d2b3570

THANK YOU!