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Latest commit 5d83f2e on Apr 20

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587 lines (426 sloc) | 16.6 KB



Raw

Blame



## Prinsip single responsibility

Kelas dan metode seharusnya hanya memiliki satu tanggung jawab.

Contoh buruk:

```
public function getFullNameAttribute()
{
    if (auth()->user() && auth()->user()->hasRole('client') && auth()->user()->isVerified()) {
        return 'Mr. ' . $this->first_name . ' ' . $this->middle_name . ' ' . $this->last_name;
    } else {
        return $this->first_name[0] . ' ' . $this->last_name;
    }
}
```

Contoh terbaik:

```
public function getFullNameAttribute()
{
    return $this->isVerifiedClient() ? $this->getFullNameLong() : $this->getFullNameShort();
}

public function isVerifiedClient()
{
    return auth()->user() && auth()->user()->hasRole('client') && auth()->user()->isVerified();
}

public function getFullNameLong()
{
    return 'Mr. ' . $this->first_name . ' ' . $this->middle_name . ' ' . $this->last_name;
}

public function getFullNameShort()
{
    return $this->first_name[0] . ' ' . $this->last_name;
}
```

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## Model tebal, controller tipis

Masukkan semua logika terkait DB ke model *eloquent* atau ke dalam kelas repositori jika anda menggunakan *Query Builder* atau kueri SQL mentah.

Contoh buruk:

```
public function index()
{
    $clients = Client::verified()
        ->with(['orders' => function ($q) {
            $q->where('created_at', '>', Carbon::today()->subWeek());
        }])
        ->get();
}
```

```
        return view('index', ['clients' => $clients]);
    }
}
```

Contoh terbaik:

```
public function index()
{
    return view('index', ['clients' => $this->client->getWithNewOrders()]);
}

class Client extends Model
{
    public function getWithNewOrders()
    {
        return $this->verified()
            ->with(['orders' => function ($q) {
                $q->where('created_at', '>', Carbon::today()->subWeek());
            }])
            ->get();
    }
}
```

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## Validasi

Pindahkan validasi dari *controller* ke kelas *request*.

Contoh buruk:

```
public function store(Request $request)
{
    $request->validate([
        'title' => 'required|unique:posts|max:255',
        'body' => 'required',
        'publish_at' => 'nullable|date',
    ]);
    ....
}
```

Contoh terbaik:

```
public function store(PostRequest $request)
{
    ....
}

class PostRequest extends Request
{
    public function rules()
    {
        return [
            'title' => 'required|unique:posts|max:255',
            'body' => 'required',
            'publish_at' => 'nullable|date',
        ];
    }
}
```

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## ***Business logic*** harus di dalam kelas ***services***

*Controller* harus hanya memiliki satu tanggung jawab, jadi pindahkan *business logic* dari *controller* ke kelas *service*.

Contoh buruk:

```
public function store(Request $request)
{
    if ($request->hasFile('image')) {
        $request->file('image')->move(public_path('images') . 'temp');
    }
    ....
}
```

Contoh terbaik:

```
public function store(Request $request)
{
    $this->articleService->handleUploadedImage($request->file('image'));

    ....
}

class ArticleService
{
    public function handleUploadedImage($image)
    {
        if (!is_null($image)) {
            $image->move(public_path('images') . 'temp');
        }
    }
}
```

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### ***Don't repeat yourself (DRY)***

Gunakan kembali kode ketika anda bisa. [PSR](#) membantu anda menghindari duplikasi. Juga, gunakan kembali *template blade*, *scope eloquent*, dll.

Contoh buruk:

```
public function getActive()
{
    return $this->where('verified', 1)->whereNotNull('deleted_at')->get();
}

public function getArticles()
{
    return $this->whereHas('user', function ($q) {
        $q->where('verified', 1)->whereNotNull('deleted_at');
    })->get();
}
```

Contoh terbaik:

```
public function scopeActive($q)
{
    return $q->where('verified', 1)->whereNotNull('deleted_at');
}

public function getActive()
{
    return $this->active()->get();
}

public function getArticles()
{
    return $this->whereHas('user', function ($q) {
        $q->active();
    })->get();
}
```

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### **Lebih memilih menggunakan *Eloquent* daripada menggunakan *Query Builder* dan query SQL mentah. Lebih memilih *collections* daripada *array***

*Eloquent* memungkinkan anda menulis kode yang dapat dibaca dan *maintainable*. Dan, *Eloquent* memiliki *built-in tools* yang bagus seperti *soft deletes*, *events*, *scopes*, dll.

Contoh buruk:

```
SELECT *
FROM `articles`
WHERE EXISTS (SELECT *
              FROM `users`
              WHERE `articles`.`user_id` = `users`.`id`
              AND `users`.`deleted_at` IS NULL)
```

```
AND EXISTS (SELECT *
              FROM `profiles`
              WHERE `profiles`.`user_id` = `users`.`id`)
AND `users`.`deleted_at` IS NULL)
AND `verified` = '1'
AND `active` = '1'
ORDER BY `created_at` DESC
```

Contoh terbaik:

```
Article::has('user.profile')->verified()->latest()->get();
```

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## Mass assignment

Contoh buruk:

```
$article = new Article;
$article->title = $request->title;
$article->content = $request->content;
$article->verified = $request->verified;
// Add category to article
$article->category_id = $category->id;
$article->save();
```

Contoh terbaik:

```
$category->article()->create($request->validated());
```

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## Jangan mengeksekusi kueri dalam *template blade* dan gunakan *eager loading* (masalah N + 1)

Contoh buruk (untuk 100 *user*, 101 kueri DB akan dieksekusi):

```
@foreach (User::all() as $user)
    {{ $user->profile->name }}
@endforeach
```

Contoh terbaik (untuk 100 *user*, 2 kueri DB akan dieksekusi):

```
$users = User::with('profile')->get();

...

@foreach ($users as $user)
    {{ $user->profile->name }}
@endforeach
```

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## Komentari kode anda, tetapi lebih baik *method* dan nama variabel yang deskriptif daripada komentar

Contoh buruk:

```
if (count((array) $builder->getQuery()->joins) > 0)
```

Contoh lebih baik:

```
// Determine if there are any joins.
if (count((array) $builder->getQuery()->joins) > 0)
```

Contoh terbaik:

```
if ($this->hasJoins())
```

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Jangan letakkan JS dan CSS di *template blade* dan jangan letakkan HTML apa pun di kelas PHP

Contoh buruk:

```
let article = `{{ json_encode($article) }}`;
```

Contoh lebih baik:

```
<input id="article" type="hidden" value=@json($article)'>

Atau

<button class="js-fav-article" data-article=@json($article)'>{{ $article->name }}<button>
```

Dalam file javascript:

```
let article = $('#article').val();
```

Cara terbaik adalah dengan menggunakan *package* `PHP to JS` khusus untuk mentransfer data.

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Gunakan file *config*, *language*, dan konstanta daripada teks dalam kode

Contoh buruk:

```
public function isNormal()
{
    return $article->type === 'normal';
}

return back()->with('message', 'Your article has been added!');
```

Contoh terbaik:

```
public function isNormal()
{
    return $article->type === Article::TYPE_NORMAL;
}

return back()->with('message', __('app.article_added'));
```

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Gunakan *tools* standar Laravel yang diterima oleh komunitas

Selalu gunakan fungsi *built-in* bawaan laravel dan *packages* komunitas daripada menggunakan *packages* dan *tools* pihak ke-3. *Developer* manapun yang akan bekerja dengan aplikasi anda di masa mendatang perlu mempelajari *tools* baru. Dan juga, peluang untuk mendapatkan bantuan dari komunitas Laravel jauh lebih rendah saat anda menggunakan *packages* atau *tools* pihak ke-3. Jangan membuat klien Anda membayar untuk itu.

Task	Tools standar	Tools pihak ke-3
Authorization	Policies	Entrust, Sentinel and other packages
Compiling assets	Laravel Mix	Grunt, Gulp, 3rd party packages
Development Environment	Laravel Sail, Homestead	Docker
Deployment	Laravel Forge	Deployer and other solutions
Unit testing	PHPUnit, Mockery	Phpspec
Browser testing	Laravel Dusk	Codeception
DB	Eloquent	SQL, Doctrine
Templates	Blade	Twig
Working with data	Laravel collections	Arrays
Form validation	Request classes	3rd party packages, validation in controller

Authentication	Built-in	3rd party packages, your own solution
API authentication	Laravel Passport, Laravel Sanctum	3rd party JWT and OAuth packages
Creating API	Built-in	Dingo API and similar packages
Working with DB structure	Migrations	Working with DB structure directly
Localization	Built-in	3rd party packages
Realtime user interfaces	Laravel Echo, Pusher	3rd party packages and working with WebSockets directly
Generating testing data	Seeder classes, Model Factories, Faker	Creating testing data manually
Task scheduling	Laravel Task Scheduler	Scripts and 3rd party packages
DB	MySQL, PostgreSQL, SQLite, SQL Server	MongoDB

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### Ikuti konvensi penamaan Laravel

Ikuti [PSR standards](#). Dan juga, ikuti konvensi penamaan yang diterima oleh komunitas Laravel:

What	How	Good	Bad
Controller	singular	ArticleController	ArticlesController
Route	plural	articles/1	article/1
Named route	snake_case with dot notation	users.show_active	users.show-active, show-active-users
Model	singular	User	Users
hasOne or belongsTo relationship	singular	articleComment	articleComments, article_comment
All other relationships	plural	articleComments	articleComment, article_comments
Table	plural	article_comments	article_comment, articleComments
Pivot table	singular model names in alphabetical order	article_user	user_article, articles_users
Table column	snake_case without model name	meta_title	MetaTitle; article_meta_title
Model property	snake_case	\$model->created_at	\$model->createdAt
Foreign key	singular model name with _id suffix	article_id	ArticleId, id_article, articles_id
Primary key	-	id	custom_id
Migration	-	2017_01_01_000000_create_articles_table	2017_01_01_000000-articles
Method	camelCase	getAll	get_all
Method in resource controller	table	store	saveArticle
Method in test class	camelCase	testGuestCannotSeeArticle	test_guest_cannot_see_article
Variable	camelCase	\$articlesWithAuthor	\$articles_with_author
Collection	descriptive, plural	\$activeUsers = User::active()->get()	\$active, \$data
Object	descriptive, singular	\$activeUser = User::active()->first()	\$users, \$obj
Config and language files index	snake_case	articles_enabled	ArticlesEnabled; articles-enabled
View	kebab-case	show-filtered.blade.php	showFiltered.blade.php; show_filtered.blade.php
Config	snake_case	google_calendar.php	googleCalendar.php; google-calendar.php



Contract (interface)	adjective or noun	AuthenticationInterface	Authenticatable, IAuthentication
Trait	adjective	Notifiable	NotificationTrait

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### Gunakan sintaks yang lebih pendek dan lebih mudah dibaca jika memungkinkan

Contoh buruk:

```
$request->session()->get('cart');
$request->input('name');
```

Contoh terbaik:

```
session('cart');
$request->name;
```

Contoh:

Sintaks umum	Sintaks pendek dan mudah dibaca
<code>Session::get('cart')</code>	<code>session('cart')</code>
<code>\$request-&gt;session()-&gt;get('cart')</code>	<code>session('cart')</code>
<code>Session::put('cart', \$data)</code>	<code>session(['cart' =&gt; \$data])</code>
<code>\$request-&gt;input('name'), Request::get('name')</code>	<code>\$request-&gt;name, request('name')</code>
<code>return Redirect::back()</code>	<code>return back()</code>
<code>is_null(\$object-&gt;relation) ? null : \$object-&gt;relation-&gt;id</code>	<code>optional(\$object-&gt;relation)-&gt;id</code>
<code>return view('index')-&gt;with('title', \$title)-&gt;with('client', \$client)</code>	<code>return view('index', compact('title', 'client'))</code>
<code>\$request-&gt;has('value') ? \$request-&gt;value : 'default';</code>	<code>\$request-&gt;get('value', 'default')</code>
<code>Carbon::now(), Carbon::today()</code>	<code>now(), today()</code>
<code>App::make('Class')</code>	<code>app('Class')</code>
<code>-&gt;where('column', '=', 1)</code>	<code>-&gt;where('column', 1)</code>
<code>-&gt;orderBy('created_at', 'desc')</code>	<code>-&gt;latest()</code>
<code>-&gt;orderBy('age', 'desc')</code>	<code>-&gt;latest('age')</code>
<code>-&gt;orderBy('created_at', 'asc')</code>	<code>-&gt;oldest()</code>
<code>-&gt;select('id', 'name')-&gt;get()</code>	<code>-&gt;get(['id', 'name'])</code>
<code>-&gt;first()-&gt;name</code>	<code>-&gt;value('name')</code>

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### Gunakan *IoC Container* atau *facades* daripada kelas baru

Sintaks Kelas baru membuat penggabungan yang sempit antar kelas dan memperumit proses pengujian. Gunakan *facades* atau *IoC container* sebagai gantinya.

Contoh buruk:

```
$user = new User;
$user->create($request->validated());
```

Contoh terbaik:

```
public function __construct(User $user)
{
    $this->user = $user;
}

....
```

```
$this->user->create($request->validated());
```

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## Jangan mendapatkan data dari file `.env` secara langsung

Alihkan data ke file konfigurasi sebagai gantinya dan kemudian gunakan fungsi `config ()` untuk menggunakan data dalam aplikasi.

Contoh buruk:

```
$apiKey = env('API_KEY');
```

Contoh terbaik:

```
// config/api.php
'key' => env('API_KEY'),

// Use the data
$apiKey = config('api.key');
```

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## Simpan tanggal dalam format standar. Gunakan *accessors* dan *mutators* untuk mengubah format tanggal

Contoh buruk:

```
{{ Carbon::createFromFormat('Y-d-m H-i', $object->ordered_at)->toDateString() }}
{{ Carbon::createFromFormat('Y-d-m H-i', $object->ordered_at)->format('m-d') }}
```

Contoh terbaik:

```
// Model
protected $dates = ['ordered_at', 'created_at', 'updated_at'];
public function getSomeDateAttribute($date)
{
    return $date->format('m-d');
}

// View
{{ $object->ordered_at->toDateString() }}
{{ $object->ordered_at->some_date }}
```

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## Praktik bagus lainnya

Jangan pernah menaruh logika apa pun di file `route`.

Minimalkan penggunaan *vanilla* PHP di *template blade*.

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