Laravel Cache

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Meet Laravel (HCM)

Scopes

- Why is Caching Important?
- What is the Laravel Caching?
- Cache types in Laravel
- Laravel Cache Driver?
- Laravel Cache method?
- Problems - How to handle and manage?
- Any things else

Why is Caching Important

Laravel

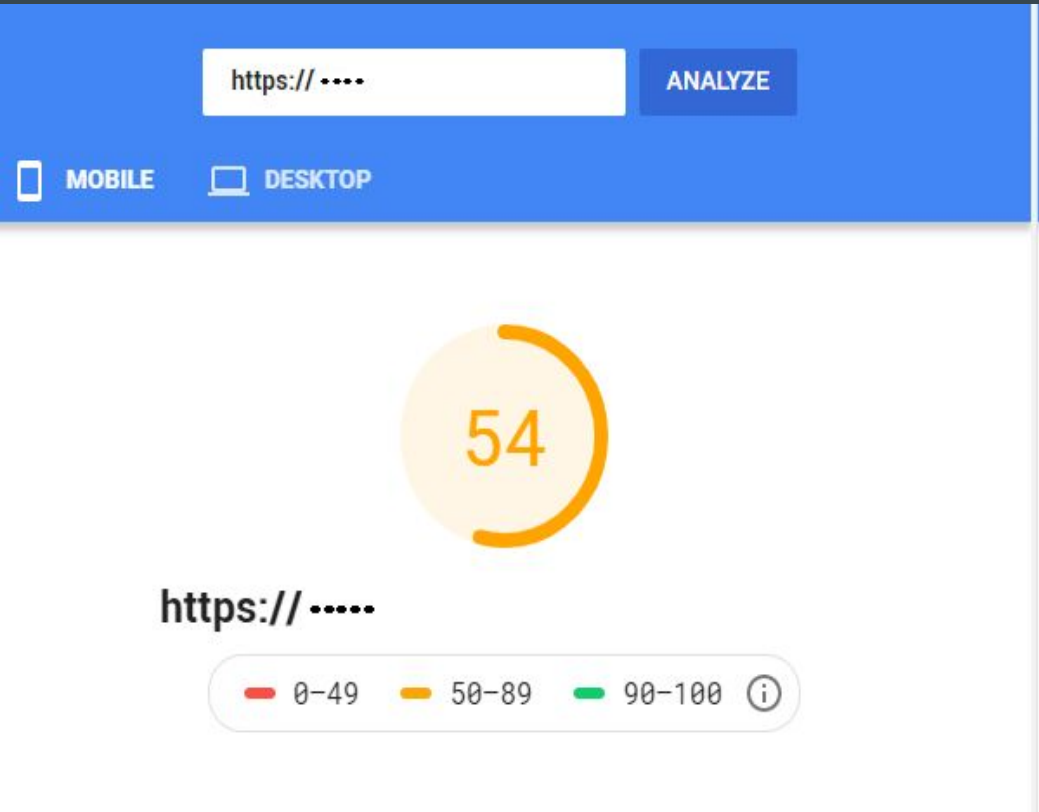
Query before caching

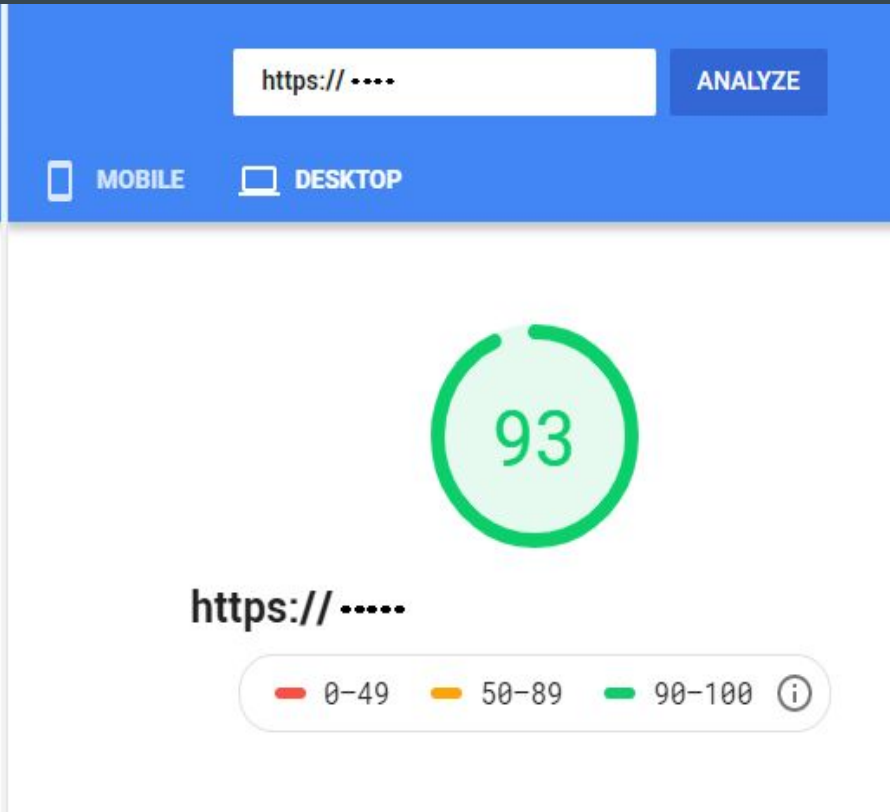
1.3s 🐌

Query after caching

0.0006s ⚡

Why is Caching Important

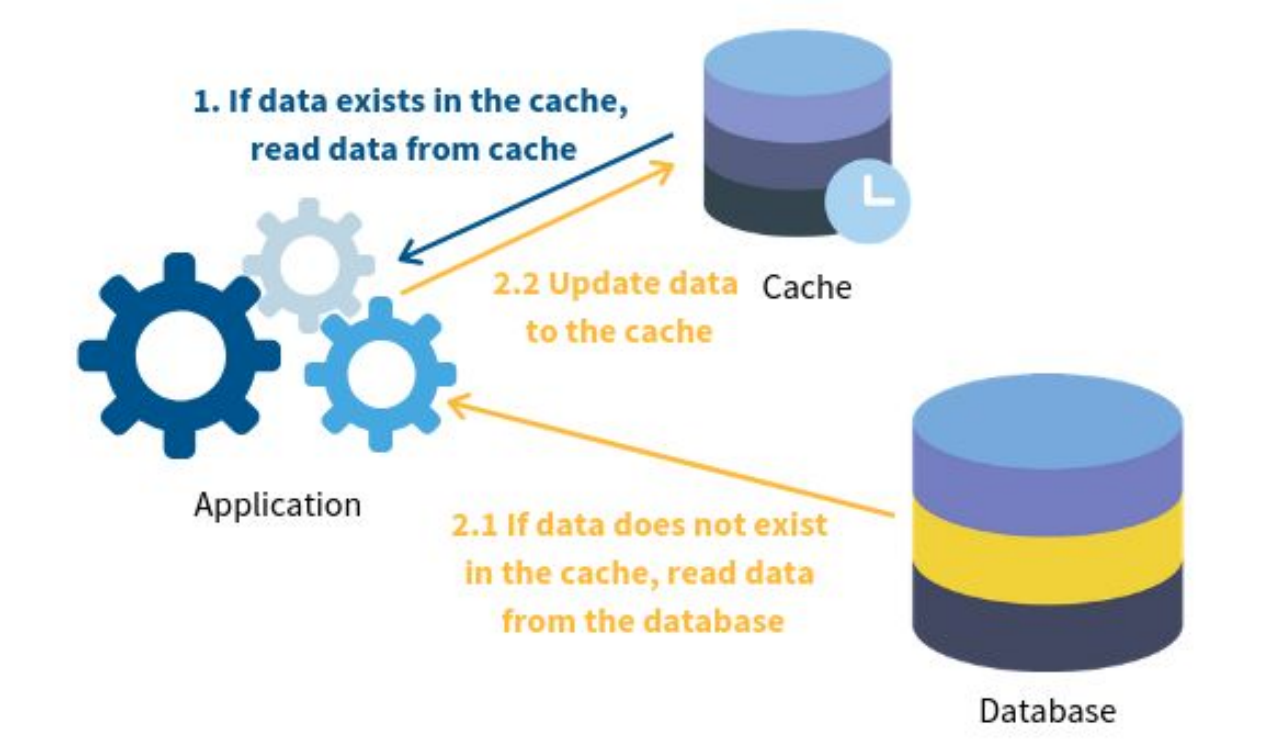




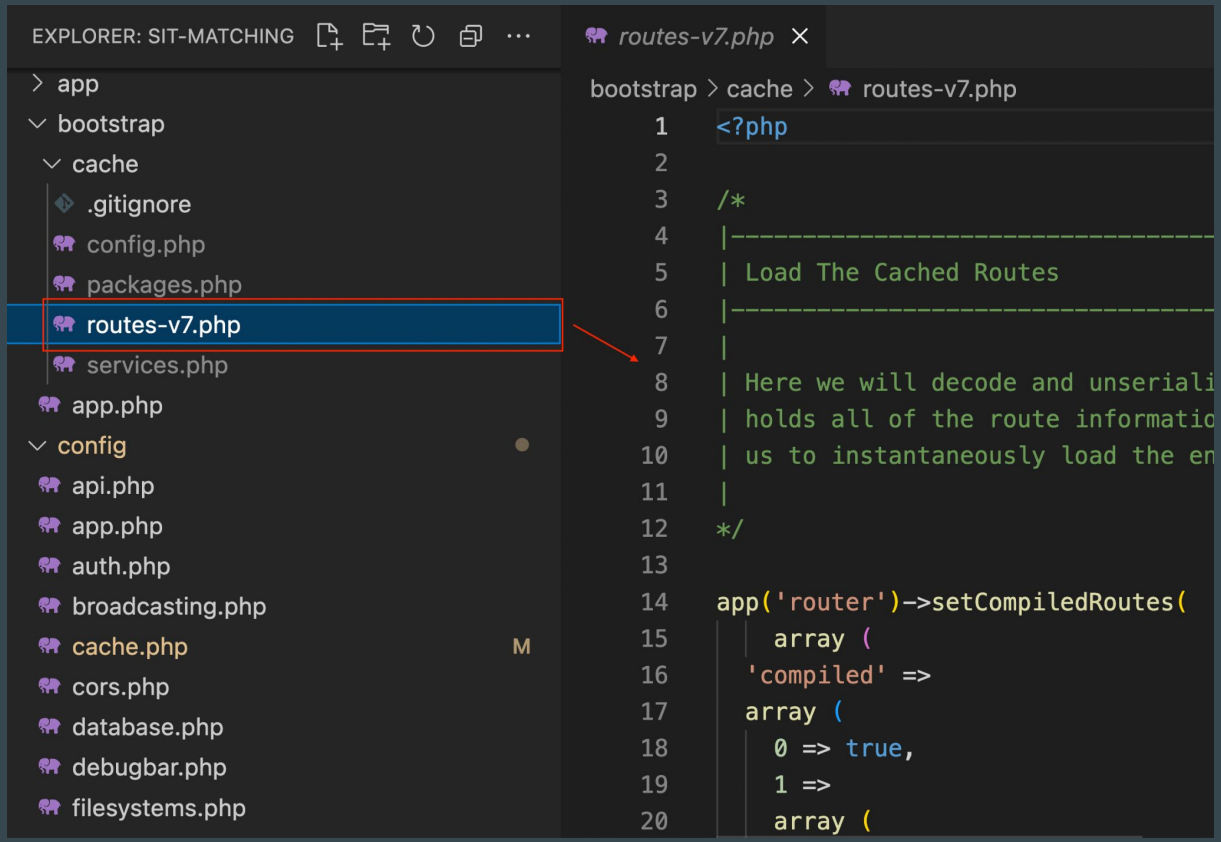
Cache Principle

- Ensure data correctness
- Time very important

What is Laravel Caching



Cache Route



For only

Production

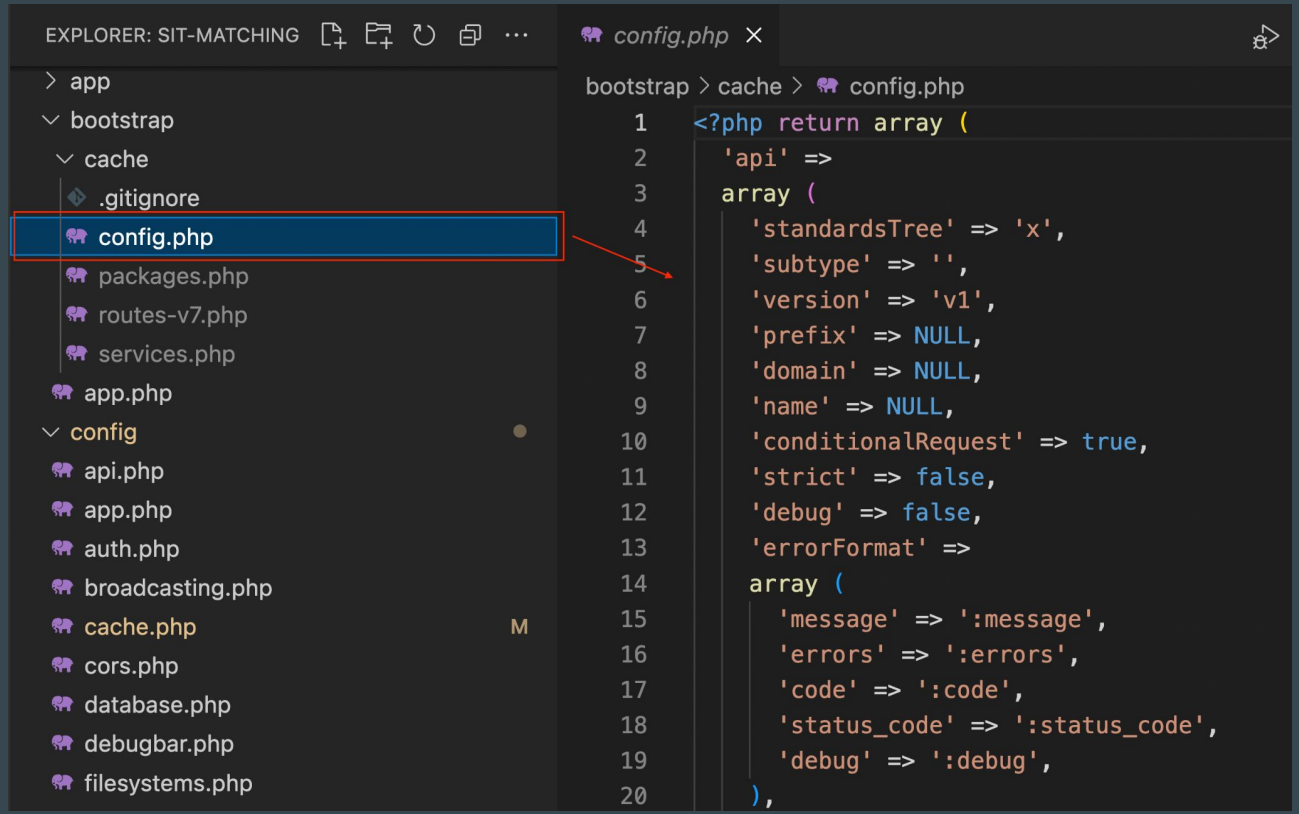
❖ Cache Route

```
/*
|--------------------------------------------------------------------------
| Web Routes
|--------------------------------------------------------------------------
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider within a group which
| contains the "web" middleware group. Now create something great!
|
*/
Route::get('users', 'UserController@index')->name('users.index');
```

php artisan route:cache

```
array (
  'middleware' =>
  array (
    0 => 'web',
  ),
  'uses' => 'App\\Http\\Controllers\\UserController@index',
  'controller' => 'App\\Http\\Controllers\\UserController@index',
  'namespace' => 'App\\Http\\Controllers',
  'prefix' => NULL,
  'where' =>
  array (
```

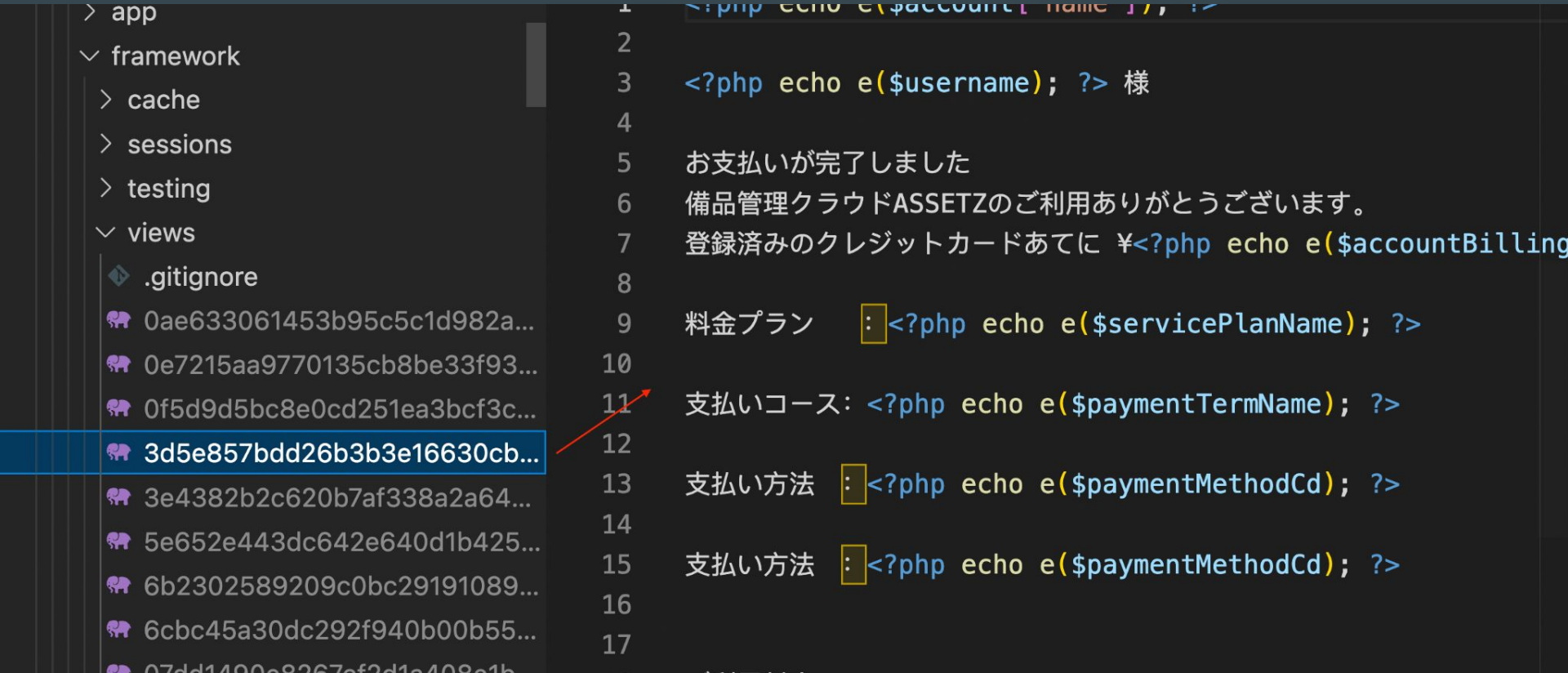
Cache Config



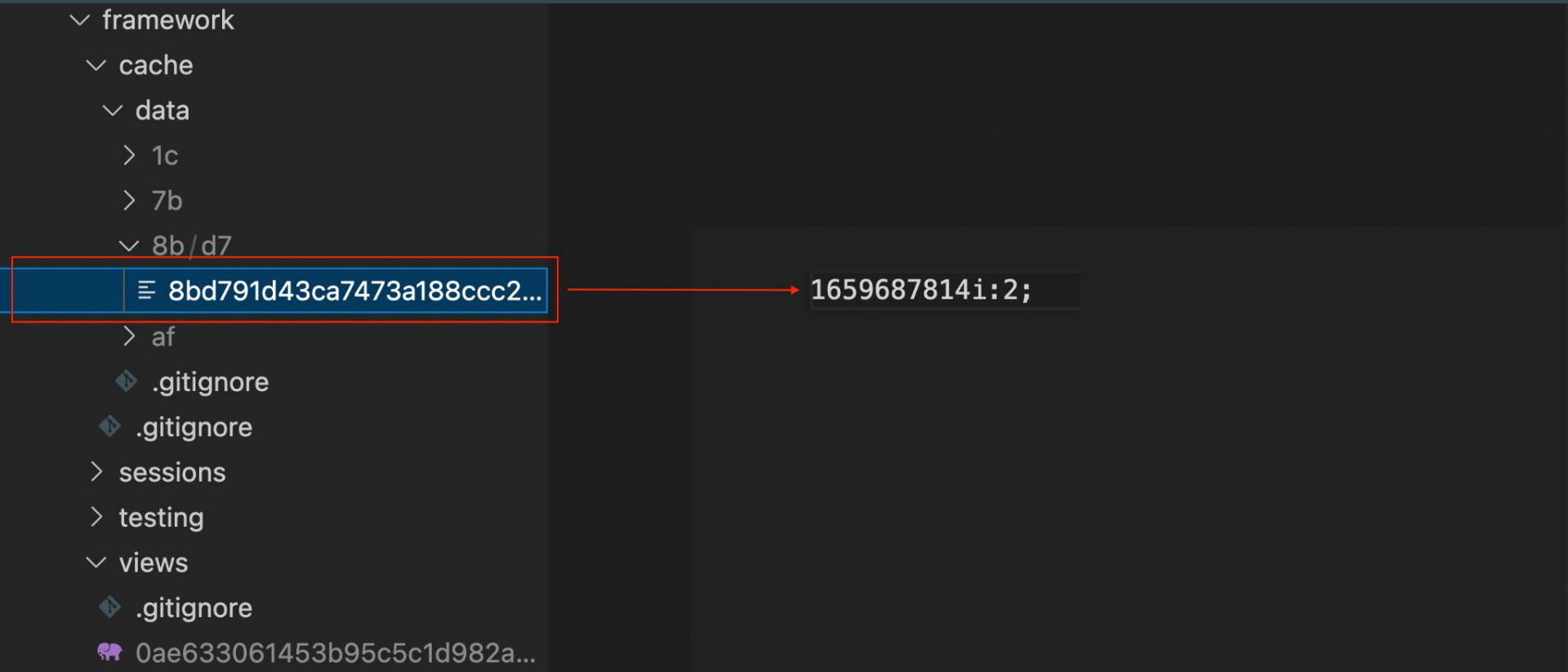
For only

Production

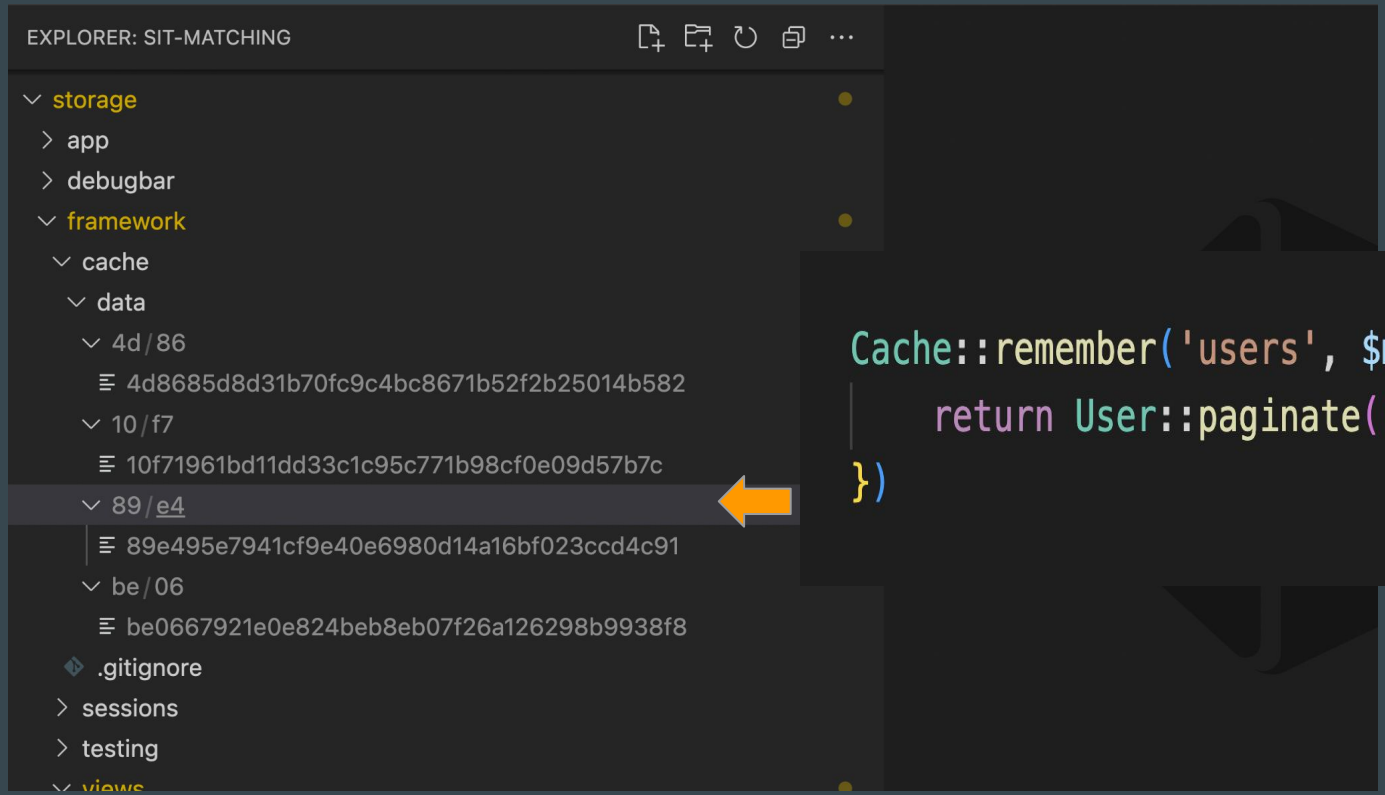
❖ Cache View


app
framework
cache
sessions
testing
views
.gitignore
0ae633061453b95c5c1d982a...
0e7215aa9770135cb8be33f93...
0f5d9d5bc8e0cd251ea3bcf3c...
3d5e857bdd26b3b3e16630cb...
3e4382b2c620b7af338a2a64...
5e652e443dc642e640d1b425...
6b2302589209c0bc29191089...
6cbc45a30dc292f940b00b55...
<?php echo e($username); ?> 様
お支払いが完了しました
備品管理クラウドASSETZのご利用ありがとうございます。
登録済みのクレジットカードあてに ¥<?php echo e($accountBilling
料金プラン : <?php echo e($servicePlanName); ?>
支払いコース: <?php echo e($paymentTermName); ?>
支払い方法 : <?php echo e($paymentMethodCd); ?>
支払い方法 : <?php echo e($paymentMethodCd); ?>

Cache Query

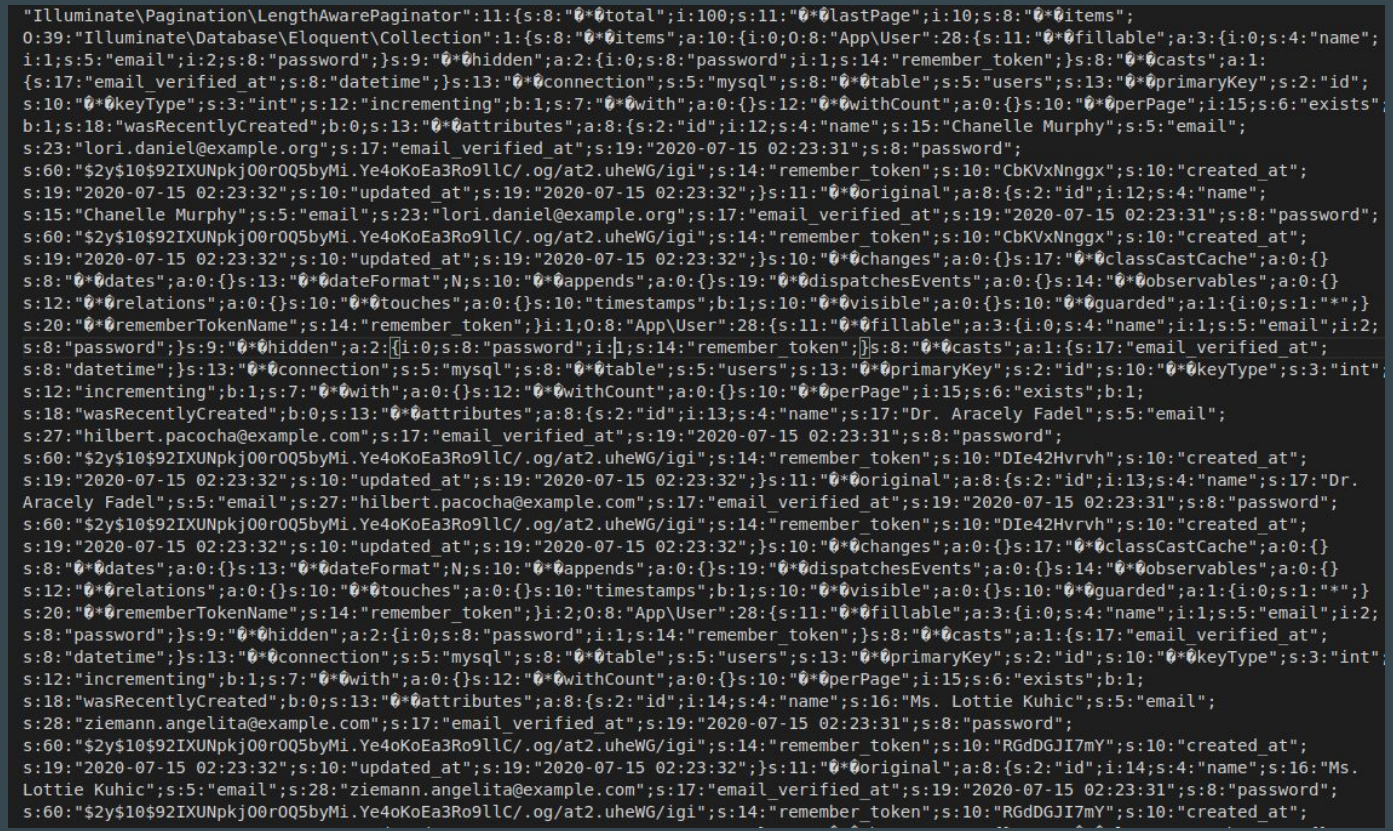

framework
cache
data
1c
7b
8b/d7
8bd791d43ca7473a188ccc2...
af
.gitignore
.gitignore
sessions
testing
views
.gitignore
0ae633061453b95c5c1d982a...
1659687814i:2;

Cache Query




```php
Cache::remember('users', $minutes, function () {
    return User::paginate();
})
```

❖ Cache Query



Content in cache file

Laravel Cache Driver

```
'stores' => [
    'array' => [
        'driver' => 'array',
    ],
    'database' => [
        'driver' => 'database',
    ],
    'file' => [
        'driver' => 'file',
        'path' => storage_path('framework/cache/data'),
    ],
    'memcached' => [
        'driver' => 'memcached',
    ],
    'redis' => [
        'driver' => 'redis',
    ],
    'octane' => [
        'driver' => 'octane',
    ],
]
```

Octane build by

❖ Example case with each driver

	Mean	Median
No Cache	1170ms	1169ms
File	99ms	94ms
Database	141ms	138ms
Memcached	63ms	52ms
Redis	57ms	53ms

❖ Laravel cache methods

```
get($key)
many(array $keys)
put($key, $value, $seconds)
putMany(array $values, $seconds)
increment($key, $value = 1)
decrement($key, $value = 1)
forever($key, $value) {}
forget($key) {}
flush() {}
```

❖ Easy to implement

```php
Cache::remember('active-posts', now()->addSeconds(30), function () {
    return Post::active()->get();
});
```

❖ Easy to implement

#Exam1

```php
Cache::put('key', 'value', now()->addMinutes(10));
```

#Exam2

```php
$john = Cache::tags(['people', 'artists'])->get('John');
$anne = Cache::tags(['people', 'authors'])->get('Anne');
```

#Exam3

```php
cache()->remember('users', $seconds, function () {
    return DB::table('users')->get();
});
```

❖ Problems - How to handle & manage

- ❑ View caching problem
- ❑ Caching pagination problem
- ❑ Caching too much
- ❑ Cache result in chunk
- ❑ Know how cache method is good?
- ❑ .....

Q&A

THANKS