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# **Laravel 10 Cheat Sheet / Summary**

This cheat sheet is a quick reference for frequently used information in Laravel projects and acts as a summary of our course. For more in-depth information, we've included the relevant documentation links.

#### **TIP**

We have also made a similar page for Livewire with the same purpose, you can find that here: Livewire Cheat Sheet / Summary

If you're using the TALL stack (Tailwind, AlpineJS, Livewire & Laravel), check out these additional resources for the stack's other technologies:

- Tailwind Official Documentation
- Tailwind cheat sheet
- Alpine Official Documentation

## **General commands**

```
shell
1
      # Commands list
2
      $ php artisan list
3
      # Command help
4
      $ php artisan help ...
6
7
      # Clear application cache
      php artisan cache:clear
8
9
      # Clear view cache
10
11
      php artisan view:clear
12
13
      # Clear route cache
14
      php artisan route:clear
```

```
# Clear config cachephp artisan config:clear
```

# **Blade**

Blade is Laravel's concise and versatile templating engine, used for crafting dynamic views, components, and layouts.

The extension for Blade files is '.blade.php'.

In Laravel views are located in the **resources/views** directory. Regular views are mainly used for building out pages while components and layouts provide a way to create reusable UI elements.

#### **Documentation**

### **Blade - Display Data**

```
1  {{-- Display available data by using '{{ }}' --}}
2  <h1>Welcome, {{ $user->name }}!</h1>
3  
4  {{-- Use {!! !!} to output without escaping --}}
5  <div>{!! $htmlOutput !!}</div>
```

### **Blade - Directives**

```
blade
     {{-- Dump (and die) variables to the browser --}}
1
2
     @dump($perPage, $newGenre, $genres->toArray())
     @dd($perPage, $newGenre, $genres->toArray())
3
4
5
     {{-- If statement --}}
     {{-- You make comments like this --}}
6
7
8
     {{-- If statement --}}
9
     @if($user->isAdmin)
         You have admin privileges.
10
     @else
11
```

```
12
         You are a regular user.
13
     @endif
14
     {{-- Switch case --}}
15
     @switch($role)
16
         @case('admin')
17
             You are an admin.
18
19
             @break
         @case('user')
20
21
             You are a user.
22
             @break
         @default
23
24
             Your role is not defined.
25
     @endswitch
26
27
     {{-- Check if defined and not null --}}
28
     @isset($products)
29
         . . .
30
     @endisset
31
32
     {{-- Check if empty --}}
33
     @empty($records)
34
         . . .
35
     @endempty
36
37
     {{-- For loop --}}
     @for ($i = 0; $i < 10; $i++)
38
         The current value is {{ $i }}
39
     @endfor
40
41
     {{-- Foreach loop --}}
42
     @foreach($products as $product)
43
         {{ $product->name }}
44
     @endforeach
45
46
     {{-- Forelse loop --}}
47
     @forelse($products as $product)
48
49
         {{ $product->name }}
     @empty
50
         No products found.
51
     @endforelse
52
53
     {{-- While loop --}}
54
```

```
55
     @while (true)
56
         I'm looping forever.
     @endwhile
57
58
     {{-- Determine if a user is authenticated or not.
59
          Add ('nameOfTheRole') to check for a specific role. --}}
60
     @auth
61
62
         You're logged in
63
     @endauth
64
65
     @guest
         Please login
66
67
     @endguest
68
     {{-- Add raw php code --}}
69
70
     @php
71
         counter = 1;
     @endphp
72
73
     {{-- Show JSON data --}}
74
75
     @json($products, JSON_PRETTY_PRINT)
```

## **Blade - Components & Layouts**

Components are reusable pieces of your layout. Laravel expects Blade components to be present in the **resources/views/components** directory.

For class based components the classes are automatically discovered in the app/ View/Components directory.

Layouts are a way to use the same general page layout across various pages. When using Blade components in Laravel, making a layout is done just the same as any other component and relies heavily on <a href="slots">slots</a> (it can also be done via <a href="template">template</a> inheritance ).

```
# Make a class based component

php artisan make:component Alert

# Make an anonymous component = No class

php artisan make:component Alert --view
```

```
6
7
      # Create component in subdirectory
      $ php artisan make:component Forms/Input
8
                                                                           blade
      \{\{--\text{ Render a component, use } x-+\text{ name in kebab-case, root}=\text{ components}\}
1
2
      <x-alert/>
3
      {{-- Use '.' for subdirectories --}}
4
      <x-forms.input/>
5
6
7
      {{-- Pass attributes to a component, use ':' for dynamic data --}}
      <x-alert type="error" :message="$message" class="mt-4"/>
8
9
      {{-- Define Data properties in a component --}}
10
      @props(['type' => 'info', 'message'])
11
12
      {{-- Use attributes in a component --}}
13
      <div {{ $attributes }}>
14
          {{ $message }}
15
16
      </div>
17
      {{-- Merge attributes in a component --}}
18
      <div {{ $attributes->merge(['class' => 'alert']) }}>
19
          My message
20
      </div>
21
22
      {{-- Use attributes & data properties in a component --}}
23
      <div {{ $attributes->merge(['class' => 'alert alert-'.$type]) }}>
24
25
          p {\{ \$message \}} 
      </div>
26
```

#### Blade - Slots & Stacks

Slots provide a mechanism for injecting dynamic content into Blade components

```
6
          {{ $slot }}
7
     </div>
8
     {{-- Pass content to the slots --}}
9
     {{-- Anything between the component tags which is not in a named slot w
10
     <x-alert>
11
          <x-slot name="title"> {{-- OR <x-slot:title> --}}
13
              Server Error
14
          </x-slot>
15
          <strong>Whoops!</strong> Something went wrong!
16
     </x-alert>
17
```

A stack can best be described as a 'reference' on the page where you can later add additional code. They are especially useful to add page specific JavaScript.

```
blade
1
     {{-- Create a stack (in a component)--}}
     @stack('script')
2
3
     {{-- Push to a stack (when using the component) --}}
4
5
     @push('script')
         <script>
6
7
              console.log('Script is working!')
8
         </script>
     @endpush
9
```

# **Routes**

Routes in Laravel define how HTTP requests are handled, connecting URLs to actions within your application. Routes can be found in the **routes** directory, for web applications we use the **routes/web.php** file for routing.

#### **Documentation**

```
shell
1
     # Route list
2
     $ php artisan route:list
3
     # Hide routes defined by third-party packages
4
5
     $ php artisan route:list --except-vendor
                                                                            php
     // Get route
1
2
     // When user surfs to /shop the shop.blade.php view located in recource
     Route::get('shop', function () {
3
          return view('shop');
4
5
     });
6
7
     // Shorter notation when only returning a view
     Route::view('shop', 'shop');
8
9
10
     // Passing data to a view via routing
11
     // Use an associative array
     Route::get('shop/products', function (){
12
          $products = [ ... ];
13
14
          return view('shop.products.overview', [
15
16
              'products' => $products
          ]);
17
     });
18
19
     // Compact function is often used when possible
20
     return view('shop.product.overview', compact('products'));
21
22
23
     // Named routes
24
     Route::view('/', 'welcome')->name('home');
25
26
     // Group routes
27
     // Prefix is added before every route in the group
     // Name is added before each named route in the group
28
     Route::prefix('admin')->name('admin.')->group(function () {
29
          //...
30
     });
31
32
     // Laravel provides options to respond to any HTTP verb
33
     Route::get($uri, $callback);
34
     Route::post($uri, $callback);
35
```

```
Route::put($uri, $callback);
36
     Route::patch($uri, $callback);
37
     Route::delete($uri, $callback);
38
     Route::options($uri, $callback);
39
40
     // Respond to multiple defined HTTP verbs
41
     Route::match(['get', 'post'], '/', function () {
42
43
     });
44
45
     // Respond to any HTTP verb
46
     Route::any('/', function () {
47
48
          // ...
     });
49
50
51
     // Redirect a route to a different route
     Route::redirect('/here', '/there');
52
```

# **Migrations**

Migrations are mainly used for defining the structure of your database. Migrations are found in the **database/migrations** directory.

#### **Documentation**

## **Migrations - Commands**

```
shell
     # Create a migration (use descriptive name with snake_case)
1
2
     $ php artisan make:migration create_products_table
     $ php artisan make:migration add_price_to_products_table
3
4
5
     # Run the new migrations
6
     $ php artisan migrate
7
8
     # Rollback latest migration
     php artisan migrate:rollback
9
10
     # Rollback all migrations
11
12
     php artisan migrate:reset
13
```

```
# Rollback all and re-migrate
php artisan migrate:refresh

Rollback all, re-migrate and run all seeders
php artisan migrate:refresh --seed
```

# **Migrations - Syntax**

Example of a create migration

```
php
      // up() --> What to add on migrate
1
2
      Schema::create('products', function (Blueprint $table) {
3
4
          // auto-increment primary key
5
          $table->id();
6
7
          // created_at and updated_at
8
          $table->timestamps();
9
          // Unique constraint
10
          $table->string('modelNumber')->unique();
11
12
          // Not required
13
14
          $table->text('description')->nullable();
15
          // Default value
16
17
          $table->boolean('isActive')->default(true);
18
          // Foreign Key relation
19
          $table->foreignId('user_id')->constrained('users')->onDelete('casca
20
21
      });
22
      // down() --> What to delete on rollback
23
24
      Schema::dropIfExists('products');
```

Example of an update migration

```
// up() --> What to add on migrate
Schema::table('products', function (Blueprint $table) {
    $table->float('price', 5, 2);
```

# **Eloquent Models**

In Laravel, Eloquent Models are PHP classes that streamline interactions with your database tables, making data retrieval, manipulation, and organization much easier. These models reside in the **App/Models** directory.

### **Documentation**

### **Models - Commands**

```
# Creating a model :

$ php artisan make:model Product

# Some of the extra options via -flags :

# -m (migration), -f (factory), -s (seed)

$ php artisan make:model Product -mfs
```

## Models - Mass assignment

Mass Assignment Protection in Laravel enhances security by enabling you to specify which attributes are allowed for <a href="mass assignment">mass assignment</a>, preventing unauthorized or unintended modifications of sensitive data.

```
// Use $guarded to list all attributes that can NOT be mass assigned
protected $guarded = []; // Empty means all attributes are guarded

// Use $fillable to list all attributes that can be mass assigned
protected $fillable = ['name', 'email', 'password'];
```

#### **WARNING**

Never use both at the same time in one specific model, pick one.

#### **Models - Relations**

Relations in Laravel define how different Eloquent models are related to each other, allowing you to establish connections and navigate between database tables with ease.

```
php
     // One to Many relationship (users with many orders)
1
     public function orders()
2
3
     {
          return $this->hasMany(Order::class);
4
5
     }
6
7
     // One to Many relationship (orders with one user)
     public function user()
8
9
     {
          return $this->belongsTo(User::class);
10
     }
11
12
13
     // One to One: User is the parent in the relationship
14
     public function profile()
15
     {
16
17
          return $this->hasOne(Profile::class);
18
     }
19
     // One to One: Profile is the child (contains user_id)
20
     public function user()
21
     {
22
          return $this->belongsTo(User::class);
23
24
     }
25
26
     // Many to Many relationship: Tags associated with multiple Products an
27
     // 'product_tag' is the pivot table connecting 'product_id' and 'tag_id
28
29
30
     // In Tag model...
     public function products()
31
```

```
32
      {
          return $this->belongsToMany(Product::class);
33
34
      }
35
      // In Product model...
36
      public function tags()
37
38
      {
39
          return $this->belongsToMany(Tag::class);
40
      }
```

### The function name is important!

Why does this code not work in the **User** model?

```
public function bestellingen()

return $this->hasMany(Order::class);
}
```

- If you refer to the Order model inside the User model:
  - the function name should be orders() (plural name of the model you refer to)
  - the function assumes that the foreign key is user\_id (singular name of the model it belongs to + \_id )
  - the function assumes that the primary key is id (default primary key)
- Only if you follow these conventions, you can shorten the default code:

```
return $this->hasMany(Order::class, 'foreign_key', 'local_key');
to the shorter version:
  return $this->hasMany(Order::class);
```

### Default models using withDefault()

You can add the withDefault() method in belongsTo and hasOne relationships which will return a new instance of the related model if the relationship is null (the foreign key is null).

```
php
// Adding a default empty model to avoid conditional checks (Null Object patt
public function user()
{
    return $this->belongsTo(User::class)->withDefault();
}
```

### **Models - Accessors & Mutators**

Accessors in Laravel let you format or modify attribute values when you retrieve them. Mutators enable you to modify attribute values before they are saved to the database.

```
1
     // Method name is the attribute name in camelCase instead of snake_case
     protected function firstName(): Attribute
2
3
     {
          return Attribute::make(
4
                                                         // accessor
              get: fn($value) => ucfirst($value),
5
              set: fn($value) => strtolower($value), // mutator
6
7
          );
8
     }
9
     // Add additional attributes that do not have a corresponding column in
10
     // Make use of $attributes as a second argument to access all attribute
11
12
     protected function userName(): Attribute
     {
13
          return Attribute::make(
14
              get: fn($value, $attributes) => User::find($attributes['user_id")
15
          );
16
     }
17
18
     protected function priceEuro(): Attribute
19
20
     {
          return Attribute::make(
21
              get: fn($value, $attributes) => '€' . number_format($attribut
22
          );
23
     }
24
```

### **Arrow functions & Named arguments**

It's common to use arrow functions and named paramaters/arguments in accessors and mutators.

#### **Arrow functions:**

- fn(arguments) is a shorthand notation for function(arguments)
- => is a shorthand for return
- E.g. fn(\$value) => ucfirst(\$value) is the same as function(\$value) { return ucfirst(\$value); }

#### Named arguments:

Named arguments allow passing arguments to a function based on the parameter name, rather than the parameter position.

```
php
function greet($message, $name) {
    echo "$message, $name!";
}

// Notice we are able to use a different order for the arguments
greet(name: "John", message: "Hello"); // Outputs: "Hello, John!"
```

## **Models - Scopes**

Scope functions in Laravel provide a convenient way to encapsulate reusable query logic within Eloquent models, allowing for cleaner and more maintainable database queries.

```
php
     // Create a scope function in the Model
1
2
     public function scopeMaxPrice($query, $price = 100)
3
     {
         return $query->where('price', '<=', $price);</pre>
4
5
     }
6
7
     // Use the scope query anywhere with the Query Builder
     $products = Product::maxPrice(20)->get();
8
```

# **Models - CRUD Operations**

Eloquent makes it easy to execute CRUD operations on your models.

```
php
1
      // Create
      $newUser = User::create(['name' => 'John Doe', 'email' => 'john@example
2
3
      // Read
4
      $users = User::all();
5
      $user = User::find(1);
6
      $activeUsers = User::where('status', 'active')->get();
7
      $tags = Product::where('name', 'Some Product')->first()->tags; // Becau
8
9
      // Update
10
      $user = User::find(1);
11
12
      $user->update(['name' => 'Updated Name']);
      User::where('status', 'inactive')->update(['status' => 'active']);
13
14
      // Delete
15
16
      $user = User::find(1);
      $user->delete();
17
      User::where('status', 'inactive')->delete();
18
```

# **Query Builder**

Laravel Query Builder simplifies database queries with a clean, expressive API. It provides an easy-to-understand way to build complex SQL queries without writing raw SQL statements.

#### **Documentation**

```
php
     // Selecting Data
1
     $users = DB::table('users')
2
          ->select('name', 'email')
3
4
          ->where('name', 'like', "%vince%")
          ->orWhere('name', 'like', "%patrick%")
5
          ->where('active', true)
6
          ->orderBy('created_at', 'desc')
7
          ->get();
8
9
     // Joining Tables and select specific Columns with conditions
10
```

```
$users = DB::table('users')
11
          ->join('orders', 'users.id', '=', 'orders.user_id')
12
          ->select('users.id as user_id', 'users.name as user_name', 'orders.
13
          ->where('orders.status', '=', 'completed')
14
          ->where('users.active', '=', true)
15
          ->orderBy('orders.created_at', 'desc')
16
17
          ->get();
18
19
     // Aggregates
20
     $totalOrders = DB::table('orders')->count();
21
      $averagePrice = DB::table('products')->avg('price');
22
23
     // Insert, Update, Delete
24
     DB::table('users')->insert(['name' => 'John Doe', 'email' => 'john@exam
25
26
     DB::table('users')->where('id', 1)->update(['name' => 'Updated Name']);
27
     DB::table('users')->where('id', 1)->delete();
```

### **Eloquent ORM vs Query Builder**

If you've looked at previous sections, you'll notice that the syntax for performing basic CRUD operations with Eloquent Models is very similar to that of the Query Builder. However, there is indeed a difference, and both have their use cases.

In short, Eloquent Models provide a simpler way to interact with data, especially when dealing with relationships. On the other hand, the Query Builder is often considered more performant in certain scenarios due to its direct manipulation of SQL queries and finegrained control.

A common rule of thumb is to use Eloquent Models in most places to make your life easier and the Query Builder for larger amounts of data. In the end you as the developer decide what works best for you and your project.

```
php
1
      // Getting all tags for a product what a certain name (many-to-many relations
2
      // Using Eloquent ORM
      $tags = Product::where('name', 'Some Product')->first()->tags;
4
      // Using Query Builder
6
      $tags = DB::table('products')
7
                   ->where('name', 'Some Product')
8
9
                   ->join('product_tags', 'products.id', '=', 'product_tags.product_
                   ->join('tags', 'product_tags.tag_id', '=', 'tags.id')
10
                   ->select('tags.*')
11
                   ->get();
12
```

# **Route Model Binding**

Route Model Binding is a feature in Laravel that saves you from writing boilerplate code to query the database.

### **Documentation**

When you type-hint a model in an action, Laravel does the work for you:

- It takes the ID from the request.
- It searches the corresponding model in the database.
- It passes the model instance to your action.

```
// The id of a product gets passed as the argument
// Laravel searches for the model based on this id because you type-hin
public function dumpProduct(Product $product)
{
    var_dump($product) // This will show the entire product, not ju
}
```

## **HTTP Client**

Laravel simplifies outbound HTTP requests using <u>Guzzle</u> through its Http facade. This facade offers methods like <u>head</u>, <u>get</u>, <u>post</u>, <u>put</u>, <u>patch</u>, and <u>delete</u> for quick and easy communication with other web applications.

In our course we only use simple <code>get</code> requests (like the example below) but the facade is capable of a lot more.

### **Documentation**

```
php
     // Import the HTTP facade
1
2
     use Http
3
4
     // Do a get request to the url
     $response = Http::get('https://api.quotable.io/random');
5
6
7
     // Get the json data in the response
     $result = $response->json();
8
9
     // Check if the request was succesful
10
11
     if ($response->successful()) {
12
          // Get specific data from the json result
13
          $author = $result['author'];
14
          $quote = $result['content'];
15
16
     } else {
17
          // Use the response status if request was not succesful
18
19
          $error = "ERROR {$response->status()}";
     }
20
```

# **Storage**

The Storage facade in Laravel provides a simplified interface for efficient file and storage management. From storing and retrieving files to directory operations, this tool offers a clean and consistent API.

#### **Documentation**

```
php
1
     // Store a file in the default disk (usually 'public')
     Storage::put('file.txt', 'Hello, Laravel!');
2
3
     // Get the contents of a file
4
5
     $contents = Storage::get('file.txt');
6
7
     // Delete a file
8
     Storage::delete('file.txt');
     // Check if a file exists
10
     if (Storage::exists('file.txt')) {
11
12
          // File exists
13
     }
14
     // Create a directory
15
     Storage::makeDirectory('images');
16
17
     // Delete a directory
18
     Storage::deleteDirectory('images');
19
```

## **Authentication**

Laravel simplifies the implementation of authentication, providing robust, out-of-the-box solutions for verifying user credentials and protecting routes. It seamlessly integrates with various authentication services and offers a flexible approach to manage user access.

### **Documentation**

### TIP

As we are using the Jetstream starter kit in the course, a full authentication system is provided including views. You can customize these views as they are found, like all other views, in the **resources/views** directory.

You can make use of the **auth()** helper function or **Auth** facade where desired (controllers, middleware, blade views,...). These provide lots of functionality (see documentation), below are two simple yet very convenient examples.

The **@auth** and **@guest** directives can also be used to quickly determine if the current user is authenticated or is a guest:

# **Middleware**

Middleware is a key tool for intercepting and handling HTTP requests and responses within your application. It provides a powerful way to apply various operations like authentication and logging, either globally or on a per-route basis.

Middleware are located in the app/Http/Middleware directory

### **Documentation**

```
# Create your own middleware (called 'ActiveUser')

php artisan make:middleware ActiveUser
```

Below is an example of a simple custom middleware to check if the user is active (according to the database record).

```
// Handle the request
public function handle(Request $request, Closure $next): Response
{
    // Check if logged in user is active
```

```
if (auth()->user()->active) {
5
6
                  // Send the user to the requested route
7
                  return $next($request);
8
              }
              // Log the user out
9
              auth('web')->logout();
10
              // Abort the request with a message
11
12
              return abort (403, 'Your account is not active. Please contact t
13
          }
```

You can register your custom middleware for easier usage in app/Http/Kernel.php.

Use your middleware on routes (for example in **routes/web.php**) which will cause the logic to be executed everytime a request is made to that route. Beware of the order you use when assigning middleware, this is also the order of execution.

```
php
     // When registered you can use middleware like this.
1
     Route::get('/profile', function () {
2
         // ...
3
4
     })->middleware(['auth', 'active']);
5
     // Alternative way is to use it like this (also possible when it's not
6
7
     Route::get('/profile', function () {
         // ...
8
9
     })->middleware(Authenticate::class, Active::class);
```

# **Carbon (time)**

Carbon is an easy-to-use PHP extension for date/time manipulation and formatting. It is installed by default in Laravel.

#### Documentation

```
php
1
     // Import Carbon
2
     use Carbon\Carbon;
3
4
     // Creating instances
5
     $now = Carbon::now(); // Current date and time
     $today = Carbon::today(); // Today's date at midnight
6
7
     $custom = Carbon::create(2023, 11, 9, 14, 30, 0); // Custom date and ti
8
     // Parsing (create instance from string)
     $parsedDate = Carbon::parse('2023-11-09 14:30:00');
10
11
12
     // Formatting
     $now->format('Y-m-d H:i:s'); // 2023-11-09 15:45:00
13
14
     // Manipulation
15
     $nextWeek = $now->addWeek(); // Add one week
16
17
     $yesterday = $now->subDay(); // Subtract one day
18
     // Comparison
19
     if ($now->gt($custom)) {
21
          echo 'The current time is greater than the custom time.';
22
     }
23
24
     // Localization
25
     setlocale(LC_TIME, 'nl_NL'); // Set Dutch locale
26
     $now->formatLocalized('%A %d %B %Y'); // "donderdag 09 november 2023"
```

# **Seeding (Optional)**

Seeding automates the process of populating your database with initial data, making it useful for testing and database setup. Seeders can be found in the **database/seeders** directory.

#### **Documentation**

# **Seeding - Commands**

```
shell

# Create a seeder

php artisan make:seeder ProductSeeder
```

```
# Run the seeders following the order defined in database/seeders/Datab
php artisan db:seed

# Run a specific seeder
php artisan db:seed --class=ProductSeeder
```

## **Seeding - Syntax**

Make use of the Query Builder and/or Factories in your seeder.

```
php
      public function run() {
1
2
          // Using a Factory to generate random data (using Faker library)
3
          Product::factory(10)->create();
4
          // Using a Factory to add fixed data
5
          Product::factory()->create([
6
              ['name' => 'necklace', 'price' => 19.99],
7
              ['name' => 'bracelet', 'price' => 12.99],
8
          1);
9
10
11
          // Using the query builder to add fixed data
          DB::table('products')->insert(
12
13
              Γ
                  ['name' => 'necklace', 'price' => 19.99],
14
                  ['name' => 'bracelet', 'price' => 12.99],
15
16
              ]
          );
17
      }
18
```

Define the order of the general seed command php artisan db:seed in database/
seeders/DatabaseSeeder .

```
7 ]);
8 }
```

# **Factories (Optional)**

Factories in Laravel simplify the creation of model instances with fake data (using the <a href="Faker Library">Faker Library</a> ), streamlining the testing and seeding processes. Factories can be found in the <a href="mailto:database/factories">database/factories</a> directory.

### **Documentation**

```
shell
     $ php artisan make:factory ProductFactory
1
                                                                             php
     public function definition() {
1
2
          return [
              'name' => $this->faker->text(20),
3
              'price' => $this->faker->numberBetween(10, 10000),
4
5
          ];
6
     }
```

# **Utility functions**

# asset()

The asset() function in Laravel simplifies the generation of asset URLs, making it easy to reference stylesheets, JavaScript files, and images in your views.

# urlencode()

Laravel's urlencode() function is a helpful tool for encoding strings to ensure safe usage in URLs.

```
php
// Create a URL with an encoded search query
surl = 'https://example.com/search?q=' . urlencode('Laravel Tutorial');
```

### request()

The request() function in Laravel simplifies HTTP request interactions by providing convenient methods to retrieve query parameters, form inputs, and check current route patterns.

```
// Retrieve the value of the 'q' query parameter from the current URL.
1
     $searchQuery = request('q');
2
3
     // Retrieve the value of the 'username' input field from a submitted fo
4
     $username = request('username');
5
6
7
     // Check if the current route matches the named route 'profile'.
     if (request()->routeIs('profile')) { ... }
8
9
     // Check if the current route matches the nested route 'admin/dashboard
10
     if(request()->routeIs('admin.dashboard');
11
12
     // Check if the current route falls under the 'admin' namespace.
13
     if (request()->routeIs('admin.*')) { ... }
14
15
16
     // Check if the current route matches 'home' or 'about'.
     if (request()->routeIs(['home', 'about'])) { ... }
17
```

Last updated: 04/12/23, 4:40 pm

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