**🎯Different Ways of Routing in Laravel**

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Show less

In Laravel, routes are defined in the routes directory, specifically in the web.php file for web routes and api.php file for API routes. Here are different types of routes you can define in Laravel:

**Simple Routing in Laravel**

**Basic Routes:**

* Define routes using the Route:: methods in the web.php file.
* Example:

COPY

COPY

Route::get('/', function () {

return view('welcome');

});

**Route Parameters:**

* Define routes with parameters to capture values from the URL.
* Example:

COPY

COPY

Route::get('/user/{id}', function ($id) {

return 'User ID: ' . $id;

});

**Optional Parameters:**

* Define optional parameters in routes.
* Example:

COPY

COPY

Route::get('/user/{name?}', function ($name = null) {

return 'User Name: ' . $name;

});

**Named Routes:**

* Give a route a name for easier referencing.
* Example:

COPY

COPY

Route::get('/profile', function () {

// ...

})->name('profile');

**Route Groups:**

* Group related routes together for applying middleware, prefixes, and more.
* Example:

COPY

COPY

Route::prefix('admin')->group(function () {

Route::get('/dashboard', function () {

return 'Admin Dashboard';

})->name('admin');

// ...

});

**Route with Middleware:**

* Apply middleware to routes for filtering HTTP requests.
* Example:

COPY

COPY

Route::get('/admin', function () {

// ...

})->middleware('admin')->name('admin');

**Controller Routes:**

* Define routes that point to controller methods.
* Example:

COPY

COPY

Route::get('/users', [UserController::class, 'index'])->name('users');

**Resource Controller Routes:**

* Create routes for CRUD operations automatically using resource controllers.
* Example:

COPY

COPY

Route::resource('photos', PhotoController::class);

**API Resource Routes:**

* API resource routes are similar to resource routes but are typically used for building API endpoints. They generate routes for standard CRUD operations but without the need for rendering views.
* Example:

COPY

COPY

Route::apiResource('products', ProductController::class);

**Advance Routing in Laravel**

**Route Prefixing:**

* Prefix a group of routes with a common path.
* Example:

COPY

COPY

Route::prefix('admin')->group(function () {

Route::get('/dashboard', [AdminController::class, 'dashboard']);

});

**Combined Route Group with Prefix and Middleware:**

COPY

COPY

Route::group(['prefix' => 'admin','middleware' => ['auth']], function() {

Route::get('/dashboard',[AdminController::class, 'dashboard'])->name('dashboard');

});

**Combined Named Route Group with Prefix and Middleware:**

COPY

COPY

Route::name('admin.')

->prefix('admin')

->middleware(['auth'])

->group(function () {

Route::get('/users', function () {

// Route assigned name "admin.users"...

// Matches The "/admin/users" URL

// This /users URI only for logged in users

})->name('users');

});

// Or,

Route::name('admin.')

->group(['prefix' => 'admin','middleware' => ['auth']], function() {

// Route assigned name "admin.dashboard"

// Matches The "/admin/dashboard" URL

// This /dashboard URI only for logged in users

Route::get('/dashboard',[AdminController::class, 'dashboard'])->name('dashboard');

});

**Controllers Route Group:**

COPY

COPY

Route::controller(OrderController::class)->group(function () {

Route::get('/orders/{id}', 'show');

Route::post('/orders', 'store');

});

**Route Middleware Group:**

COPY

COPY

Route::middleware(['auth', 'is\_admin'])->group(function () {

Route::get('/', function () {

// Uses auth & is\_admin middlewares

});

Route::get('/user/profile', function () {

// Uses auth & is\_admin middlewares

});

});

Thank you for taking the time to delve into this article.

Happy Learning! 🚀

#laravel\_routing #laravel #php