**Laravel Learning Path**

This repository contains the **ordered** list of Laravel topics to learn, step-by-step, with related links.

If you want to add a topic, link, or any other suggestion, please open Issues or Pull Requests.

**Notice**: This content was filled into an adminpanel generated with our [QuickAdminPanel](https://quickadminpanel.com/?utm_source=github&utm_campaign=roadmap) - here's a [video demo of that process on Youtube](https://www.youtube.com/watch?v=i2ElUDUDRms). By purchasing QuickAdminPanel, you support my free initiatives, like this Roadmap.

**Beginner Level**

Create your very first simple Laravel project

**Link icons: 📖 Official Docs 🎬 Video 📄 Article 🔠 Course ❓ Test**

| **Topic** | **Learning Links** |
| --- | --- |
| **Routing and Controllers: Basics** | ❓ [Let's Test Your Laravel Routing Skills: Complete 12 Tasks](https://www.youtube.com/watch?v=pENlD3izA3Q) |
| Callback Functions and Route::view() | 📖 [Basic Routing](https://laravel.com/docs/routing#basic-routing) 📖 [View Routes](https://laravel.com/docs/routing#view-routes) |
| Routing to a Single Controller Method | 📖 [Basic Controllers with Routes](https://laravel.com/docs/controllers#basic-controllers) |
| Route Parameters | 📖 [Route Parameters](https://laravel.com/docs/routing#route-parameters) |
| Route Naming | 📖 [Names Routes](https://laravel.com/docs/routing#named-routes) 🎬 [Laravel: Why You Need Route Names?](https://www.youtube.com/watch?v=7lalb6HtR1c) |
| Route Groups | 📖 [Route Groups](https://laravel.com/docs/routing#route-groups) 🎬 [Laravel Route Grouping: Simple to Very Complex](https://www.youtube.com/watch?v=I6kyfSmPhn8) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/route-groups.md) |
| **Blade Basics** | ❓ [Let's Test Your Laravel Blade Skills: Complete 8 Tasks](https://www.youtube.com/watch?v=P8s7UHuUhbg) 🎬 [9 Quick Tips about Laravel Blade](https://www.youtube.com/watch?v=-Glz1InN68o) |
| Displaying Variables in Blade | 📖 [Blade: Displaying Data](https://laravel.com/docs/blade#displaying-data) |
| Blade If-Else and Loop Structures | 📖 [Blade: If-Statements](https://laravel.com/docs/blade#if-statements) 📖 [Blade Loops](https://laravel.com/docs/blade#loops) |
| Layout: @include, @extends, @section, @yield | 📖 [Blade: Layout Using Template Inheritance](https://laravel.com/docs/blade#layouts-using-template-inheritance) |
| Blade Components | 📖 [Blade Components](https://laravel.com/docs/blade#components) 🎬 [Laravel Blade Components: Two Examples - Laravel Breeze/UI](https://www.youtube.com/watch?v=HybWBINeXMw) |
| **Auth Basics** | ❓ [Test Your Laravel Auth Skills: Complete 7 Tasks](https://www.youtube.com/watch?v=v_3NmwtN_S0) 🎬 [8 Tips & Tricks about Laravel Auth](https://www.youtube.com/watch?v=-dpp4CJS6Vk) |
| Starter Kits: Breeze (Tailwind) or Laravel UI (Bootstrap) | 📖 [Laravel Breeze Official Documentation](https://laravel.com/docs/starter-kits" \l "laravel-breeze) 📖 [Laravel UI: Official Github Page](https://github.com/laravel/ui) 🎬 [Laravel 8 Auth: 5 "Latest" Things You Need to Know](https://www.youtube.com/watch?v=L1FVdHdEm_8) [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/auth-starter-kits.md) |
| Default Auth Model and Access its Fields from Anywhere | 📖 [Retrieving the Authenticated User](https://laravel.com/docs/authentication#retrieving-the-authenticated-user) |
| Check Auth in Controller / Blade | 📖 [Determining If The Current User Is Authenticated](https://laravel.com/docs/authentication#determining-if-the-current-user-is-authenticated) 📖 [Blade: Authentication Directives](https://laravel.com/docs/blade#authentication-directives) |
| Auth Middleware | 📖 [Protecting Routes](https://laravel.com/docs/authentication#protecting-routes) |
| **Database Basics** |  |
| Database Migrations | ❓ [Test Your Laravel Migrations Skills: Complete 10 Tasks](https://www.youtube.com/watch?v=tPU1hNKI_lc) 📖 [Database Migrations](https://laravel.com/docs/migrations) 🎬 [Laravel Migrations: Table Created but Foreign Key Failed?](https://www.youtube.com/watch?v=DWzUBpsEEHY) [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/database-migrations.md) |
| Basic Eloquent Model and MVC: Controller -> Model -> View | ❓ [Test Your Eloquent Basic Skills: 11 Tasks to Complete](https://www.youtube.com/watch?v=AmvLs9sRSH8) 📖 [Eloquent: Getting Started](https://laravel.com/docs/eloquent) |
| Eloquent Relationships: belongsTo / hasMany / belongsToMany | ❓ [Test Your Eloquent Relationships Skills: 9 Tasks to Complete](https://www.youtube.com/watch?v=ohj0Mc09DyE) 📖 [Eloquent Relationships: One-to-One](https://laravel.com/docs/eloquent-relationships#one-to-one) 📖 [Eloquent Relationships: One-to-Many](https://laravel.com/docs/eloquent-relationships#one-to-many) 📖 [Eloquent Relationships: BelongsTo](https://laravel.com/docs/eloquent-relationships#one-to-many-inverse) 📖 [Eloquent Relationships: Many-to-Many](https://laravel.com/docs/eloquent-relationships#many-to-many) 🎬 [How to Safely Change DB Relations in Live Laravel Project?](https://www.youtube.com/watch?v=nRmoywPJRdM) |
| Eager Loading and N+1 Query Problem | 📖 [Relationships: Eager Loading](https://laravel.com/docs/eloquent-relationships#eager-loading) 🎬 [Laravel N+1 Query Detector: Don't Forget Eager Loading](https://www.youtube.com/watch?v=MbN7BIcUnPA) |
| **Full Simple CRUD** |  |
| Route Resource and Resourceful Controllers | 📖 [Laravel Resource Controllers](https://laravel.com/docs/controllers" \l "resource-controllers) 📄 [Simple Laravel CRUD with Resource Controllers [digitalocean.com]](https://www.digitalocean.com/community/tutorials/simple-laravel-crud-with-resource-controllers) 🎬 [Laravel Nested Resource Controllers: Two-Level Deep](https://www.youtube.com/watch?v=9R_9Xe3Fgnw) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/route-resource-resourceful-controllers.md) |
| Forms, Validation and Form Requests | ❓ [Test Your Laravel Validation Skills: Complete 9 Tasks](https://www.youtube.com/watch?v=3ihjumeOMV4) 📖 [Laravel Validation](https://laravel.com/docs/validation) 🎬 [New in Laravel 6.13: Format Validation Error Field Name](https://www.youtube.com/watch?v=KD1SqLO58eE) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/forms-validation-requests.md) |
| File Uploads and Storage Folder Basics | ❓ [Test Your Laravel File Upload Skills: Complete 7 Tasks](https://www.youtube.com/watch?v=_SrQRnOx3q8) 📖 [Filesystem: File Uploads](https://laravel.com/docs/filesystem" \l "file-uploads) 🎬 [Laravel: How to Upload File During User Registration](https://www.youtube.com/watch?v=xyQT2pnv_4E) [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/file-uploads-and-storage-folder-basics.md) |
| Table Pagination | 📖 [Database Pagination](https://laravel.com/docs/pagination) |

**Beginner Demo-Project: Personal Blog**

To achieve this Beginner level, you would need to practice by creating something like [this personal blog project](https://github.com/LaravelDaily/Laravel-Roadmap-Beginner-Challenge).

Inside of the repository above, you will find all the details of the task, with a few example solutions.

**Advanced Beginner Level**

The goal of this level is to find the first job or freelance gig

**Link icons: 📖 Official Docs 🎬 Video 📄 Article 🔠 Course**

| **Topic** | **Learning Links** |
| --- | --- |
| **Routing Advanced** | 🎬 [Laravel: 8 Tips for Advanced Routing](https://www.youtube.com/watch?v=_BIhuX8owTo) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/routing-advanced.md) |
| Route Model Binding | 📖 [Route Model Binding](https://laravel.com/docs/routing#route-model-binding) 🎬 [Laravel Route Model Binding: All You Need To Know](https://www.youtube.com/watch?v=6dEfxGLgevM) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/route-model-binding.md) |
| Route Redirect | 📖 [Redirect Routes](https://laravel.com/docs/routing#redirect-routes) |
| **Middleware** |  |
| Create Custom Middleware Class | 📖 [Defining Middleware](https://laravel.com/docs/middleware#defining-middleware) |
| **Database Advanced** |  |
| Database Seeders and Factories | 📖 [Database: Seeding](https://laravel.com/docs/seeding) 📖 [Defining Model Factories](https://laravel.com/docs/eloquent-factories#defining-model-factories) 🎬 [Laravel Factories: Generate and Re-use Fake Records](https://www.youtube.com/watch?v=MHBDUJ51Pqs) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/database-seeders-and-factories.md) |
| Eloquent Query Scopes | 📖 [Eloquent: Query Scopes](https://laravel.com/docs/eloquent#query-scopes) 🎬 [Same Eloquent Where Condition? Refactor into Local Scopes](https://www.youtube.com/watch?v=90xGUIuZsHE) |
| Polymorphic relationships | 📖 [Polymorphic Relationships](https://laravel.com/docs/eloquent-relationships#polymorphic-relationships) 🎬 [Laravel.io Portal: Polymorphic Relations Example](https://www.youtube.com/watch?v=EjJaNGW7vAg) |
| Eloquent Accessors and Mutators | 📖 [Accessors & Mutators](https://laravel.com/docs/eloquent-mutators" \l "accessors-and-mutators) |
| Eloquent Collections | 📖 [Eloquent Collections](https://laravel.com/docs/eloquent-collections) 📖 [General Laravel Collections](https://laravel.com/docs/collections) |
| Soft Deletes | 📖 [Soft Deleting](https://laravel.com/docs/eloquent#soft-deleting) |
| **Auth Advanced** |  |
| Authorization: Roles/Permissions, Gates, Policies | 📖 [Authorization](https://laravel.com/docs/authorization) 🎬 [Laravel Roles and Permissions: All CORE Things You Need To Know](https://www.youtube.com/watch?v=kZOgH3-0Bko) [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/authorization-roles-permissions-gates-policies.md) |
| Authorization: Extra Packages - Spatie Permission, Bouncer, etc | 🎬 [Spatie Laravel Permission: Example Project Review](https://www.youtube.com/watch?v=NgToi0uiMNQ) 📄 [Two Best Laravel Packages to Manage Roles/Permissions](https://laravel-news.com/two-best-roles-permissions-packages) 📖 [spatie/laravel-permission](https://github.com/spatie/laravel-permission) 📖 [JosephSilber/bouncer](https://github.com/JosephSilber/bouncer) |
| Authentication: Email Verification | 📖 [Email Verification](https://laravel.com/docs/verification) 🎬 [How to Translate/Customize Laravel Auth Default Emails](https://www.youtube.com/watch?v=c01k5Zo_CuI) |
| **File Uploads Advanced** | 🔠 [File Uploads in Laravel](https://laraveldaily.com/course/laravel-file-uploads?utm_source=github&utm_campaign=roadmap) |
| Drivers and Disks, Example of Amazon S3 | 📖 [File Storage](https://laravel.com/docs/filesystem) 🎬 [Laravel: How to Upload Files to Amazon S3](https://www.youtube.com/watch?v=xZQM9q_QxMA) |
| Extra Packages: Spatie Medialibrary, Intervention Image, etc | 📖 [spatie/laravel-medialibrary](https://github.com/spatie/laravel-medialibrary) 📖 [intervention/image](https://github.com/Intervention/image) 🎬 [Spatie Media Library Pro: Laravel File Uploads with Great UX [REVIEW]](https://www.youtube.com/watch?v=oqW6vlJgXYE) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/file-upload-extra-packages.md) |
| **API Basics** | 🔠 [How to Create Laravel API](https://laraveldaily.com/course/laravel-api?utm_source=github&utm_campaign=roadmap) 🎬 [Create Model with API Controller - in one Artisan Command](https://www.youtube.com/watch?v=DZw2wKzfRVU) [Laravel API: Be Careful When Doing Changes](https://www.youtube.com/watch?v=yXnIW4DkuHQ) |
| API Routes and Controllers | 📖 [API Resource Routes](https://laravel.com/docs/controllers#api-resource-routes) 📖 [Default Route Files](https://laravel.com/docs/routing#the-default-route-files) 🎬 [Junior Code Review: Simple Laravel API - in 5 Different Ways](https://www.youtube.com/watch?v=MxQJlFUYO30) |
| Working with API Clients: Postman or Alternatives | 📖 [Postman API Client](https://www.postman.com/product/api-client/) |
| API Eloquent Resources | 📖 [Eloquent: API Resources](https://laravel.com/docs/eloquent-resources) 🎬 [Laravel API Result: Add Fields with Map or Appends](https://www.youtube.com/watch?v=FNU3gYgiEgQ) |
| API Auth with Sanctum | 📖 [Laravel Sanctum](https://laravel.com/docs/sanctum) 🎬 [Laravel API Auth with Sanctum and API Tokens](https://www.youtube.com/watch?v=gyWLxpYWxFQ) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/api-auth-with-sanctum.md) |
| API Error Handling and Status Codes | 🎬 [Laravel API 404 Error: Customize Exception Message](https://www.youtube.com/watch?v=SlBJrLnyoMk) 📄 [HTTP Status Codes](https://httpstatuses.com/) |
| **Debugging Errors** |  |
| Log Files in Laravel | 📖 [Logging](https://laravel.com/docs/logging) |
| Try-Catch and Laravel Exceptions | 📖 [Error Handling](https://laravel.com/docs/errors) 🎬 [Exceptions in Laravel: Why/How to Use and Create Your Own](https://www.youtube.com/watch?v=RTTXZVIL6tw) |
| Local Debugging Tools: Debugbar, Telescope, Ray | 📖 [barryvdh/laravel-debugbar](https://github.com/barryvdh/laravel-debugbar) 📖 [Laravel Telescope](https://laravel.com/docs/telescope) 📖 [Spatie Ray (Premium Tool)](https://myray.app/) 🎬 [Debug Eloquent Queries from API: Laravel Telescope](https://www.youtube.com/watch?v=SR3RzIfeozI) 🎬 [Spatie Ray: Laravel Debugging with Pleasure](https://www.youtube.com/watch?v=n4pMxyAXeqY) |
| Customizing Error Pages and Messages | 📖 [Custom HTTP Error Pages](https://laravel.com/docs/errors#custom-http-error-pages) 🎬 [Laravel Error Pages: Change Text or Customize Layouts](https://www.youtube.com/watch?v=iMAFUi6Z57k) 🎬 [New in Laravel 8.26: Override 404 Page with Route Missing](https://www.youtube.com/watch?v=nvDCQDkcjN0) |
| (optional) Third Party Bug Trackers: Bugsnag, Flare, Sentry, Rollbar | 📖 [Bugsnag Laravel](https://docs.bugsnag.com/platforms/php/laravel/) 📖 [Flare Homepage](https://flareapp.io/) 📖 [Sentry Laravel](https://docs.sentry.io/platforms/php/guides/laravel/) 📖 [Rollbar Laravel](https://docs.rollbar.com/docs/laravel) 🎬 [Bug Tracking in Laravel: Bugsnag vs Flare [Demo/Review]](https://www.youtube.com/watch?v=88UqUXhWwGA) |
| **Sending Email** | 🎬 [Laravel: 3 Ways to Send a Welcome Email (Controller vs Observer vs Events)](https://www.youtube.com/watch?v=ZWzH6SOzjhI) |
| Mailables and Mail Facade | 📖 [Mail & Mailables](https://laravel.com/docs/mail) |
| Configure Drivers/Services: Mailgun, Mailtrap, etc | 📄 [How to Send Email From Laravel, and Why We Need 3rd Party Providers For It](https://laraveldaily.com/how-to-send-email-from-laravel-and-why-we-need-3rd-party-providers-for-it/) 📖 [Mail: Drivers Prerequisites](https://laravel.com/docs/mail#driver-prerequisites) |
| Notifications System: Email, SMS, Slack, etc. | 📖 [Notifications](https://laravel.com/docs/notifications) 🎬 [Laravel Notifications: "Database" Driver - Demo Project](https://www.youtube.com/watch?v=5DREuAvFnps) |
| **Automated Testing with PHPUnit** | 🎬 [PHPUnit in Laravel: Simple Example of Why/How to Test](https://www.youtube.com/watch?v=DRhhfy2sG1E) |
| "Smoke" Tests to Check if Pages are Loading | 📖 [Testing: Getting Started](https://laravel.com/docs/testing) 🔠 [Testing Laravel: Course by Spatie](https://spatie.be/products/testing-laravel) 🔠 [My Course: Laravel Testing For Beginners: PHPUnit, Pest, TDD](https://laraveldaily.com/course/laravel-testing?utm_source=github&utm_campaign=roadmap) 🎬 [Laravel TDD in "Live" Mode: Checkout Code Review](https://www.youtube.com/watch?v=5XywKLjCD3g) |
| Configure Testing Database and Test CRUD Operations | 📖 [Database Testing](https://laravel.com/docs/database-testing) |
| **Deployment and Version Control** |  |
| Git Version Control | 📖 [Git](https://git-scm.com/) 🎬 [Git in Laravel. Part 1 - Branches: Main, Develop and Feature](https://www.youtube.com/watch?v=AmScEC-_72I) 🎬 [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/git-version-control.md) |
| Deployment on Live Servers | 📖 [Deployment](https://laravel.com/docs/deployment) 📄 [How to Deploy Laravel Projects to Live Server: The Ultimate Guide](https://laraveldaily.com/how-to-deploy-laravel-projects-to-live-server-the-ultimate-guide/) 📄 [What Server is Needed to Deploy Laravel Projects](https://laraveldaily.com/what-server-is-needed-to-deploy-laravel-projects/) 🎬 [How we Deploy Laravel: Branches, Staging Servers, Forge and Envoyer](https://www.youtube.com/watch?v=8DVuVftFZcQ) |

**Advanced Beginner Demo-Project: Simple CRM**

To achieve this Advanced Beginner level, you would need to practice by creating something like [this simple CRM project](https://github.com/LaravelDaily/Laravel-Roadmap-Advanced-Beginner-Challenge).

Inside of the repository above, you will find all the details of the task, with an example solution.

**Mid Level**

Master all Laravel features with 3-5 years of practical experience

**Link icons: 📖 Official Docs 🎬 Video 📄 Article 🔠 Course**

| **Topic** | **Learning Links** |
| --- | --- |
| **Routing Extra Features** |  |
| Route Caching | 📖 [Route Caching](https://laravel.com/docs/routing#route-caching) |
| Rate Limiting | 📖 [Rate Limiting](https://laravel.com/docs/routing#rate-limiting) 🎬 [Laravel: Create Public API with Cache and Rate Limits](https://www.youtube.com/watch?v=vrLcCxWlxOk) |
| Invokable controllers | 📖 [Single Action Controllers](https://laravel.com/docs/controllers#single-action-controllers) |
| **Database/Eloquent Extra Features** |  |
| Model Observers | 📖 [Eloquent Observers](https://laravel.com/docs/eloquent#observers) 🎬 [Laravel Model: Check if Any Field Was Changed](https://www.youtube.com/watch?v=_xluet13xxE) 🎬 [Eloquent Observers or Events Listeners? Which is Better?](https://www.youtube.com/watch?v=DvoaU6cQQHM) |
| Raw Database Queries | 📖 [Query Builder: Raw Expressions](https://laravel.com/docs/queries#raw-expressions) |
| All Eloquent Features | 📖 [All About Eloquent](https://laravel.com/docs/eloquent) 🔠 [Eloquent: Expert Level](https://laraveldaily.teachable.com/p/laravel-eloquent-expert-level?utm_source=github&utm_campaign=roadmap) 📄 [20 Laravel Eloquent Tips and Tricks](https://laravel-news.com/eloquent-tips-tricks) 🎬 [Laravel Collections: 5 Methods with Real Examples](https://www.youtube.com/watch?v=isAz2GduuA0) [More videos](https://github.com/LaravelDaily/Laravel-Roadmap-Learning-Path/blob/main/videos/all-eloquent-features.md) |
| **Various Extra Laravel Features** |  |
| Custom Blade Directives | 📖 [Extending Blade](https://laravel.com/docs/blade#extending-blade) |
| Events and Listeners | 📖 [Events and Listeners](https://laravel.com/docs/events) 🎬 [Laravel: 3 Ways to Send a Welcome Email (Controller vs Observer vs Events)](https://www.youtube.com/watch?v=ZWzH6SOzjhI) 🎬 [Laravel: Why Observers and Event Listeners are "Risky"](https://www.youtube.com/watch?v=A3bmLo77e5M) |
| Laravel HTTP Client and Guzzle | 📖 [HTTP Client](https://laravel.com/docs/http-client) 🎬 [Laravel and External APIs: Get Data with HTTP Client](https://www.youtube.com/watch?v=oEDDZsmMLc0) |
| Login with X: Laravel Socialite | 📖 [Laravel Socialite](https://laravel.com/docs/socialite) |
| Creating Artisan Commands | 📖 [Writing Artisan Commands](https://laravel.com/docs/artisan#writing-commands) 🎬 [How to Create Artisan Commands in Laravel](https://www.youtube.com/watch?v=-r3WnYy7g48) |
| Task Scheduling | 📖 [Task Scheduling](https://laravel.com/docs/scheduling) 🎬 [Laravel Task Scheduling: Run Artisan Command Hourly](https://www.youtube.com/watch?v=r-KrsQ0dN80) |
| Caching | 📖 [Cache](https://laravel.com/docs/cache) 🎬 [Cache Eloquent Query Results to Load Pages Instantly](https://www.youtube.com/watch?v=JhKngeE0XJA) |
| Real-time: Broadcasting, Echo and Pusher | 📖 [Broadcasting](https://laravel.com/docs/broadcasting) |
| **Jobs and Queues** | 🔠 [Queues in Laravel](https://laraveldaily.com/course/laravel-queues?utm_source=github&utm_campaign=roadmap) |
| Queueable Classes and Jobs | 📖 [Creating Jobs](https://laravel.com/docs/queues#creating-jobs) 📖 [Queueing Notifications](https://laravel.com/docs/notifications" \l "queueing-notifications) 📖 [Queued Event Listeners](https://laravel.com/docs/events#queued-event-listeners) 📖 [Queueing Mail](https://laravel.com/docs/mail" \l "queueing-mail) 🎬 [Laravel Queues 101: Example with Sending Emails](https://www.youtube.com/watch?v=rVx8xKisbr8) |
| Job Dispatching, Batching and Chaining | 📖 [Dispatching Jobs](https://laravel.com/docs/queues#dispatching-jobs) |
| Processing Failed Jobs | 📖 [Dealing with Failed Jobs](https://laravel.com/docs/queues#dealing-with-failed-jobs) |
| Configuring Queues: Drivers, Redis, Supervisor | 📖 [Running the Queue Worker](https://laravel.com/docs/queues#running-the-queue-worker) 📖 [Configuring Supervisor](https://laravel.com/docs/queues#supervisor-configuration) |
| Laravel Horizon (optional, if you use Redis) | 📖 [Laravel Horizon](https://laravel.com/docs/horizon) |
| **API Advanced** |  |
| Upload Files via API | 📄 [Laravel API: How to Upload File from Vue.js](https://blog.quickadminpanel.com/laravel-api-how-to-upload-file-from-vue-js/) |
| Generate API Documentation | 📄 [Laravel API Documentation with OpenAPI/Swagger](https://blog.quickadminpanel.com/laravel-api-documentation-with-openapiswagger/) 🎬 [Scribe: New Package for Laravel API Documentation](https://www.youtube.com/watch?v=PjwGI8c2IfA) |
| API Versioning | 📄 [Versioning your REST API with Laravel](https://codimth.com/blog/web/laravel/versioning-your-rest-api-laravel) 🎬 [Versioning your API: from V1 to V2 and Beyond [video from my course]](https://laraveldaily.com/lesson/laravel-api/versioning-v1-v2?utm_source=github&utm_campaign=roadmap) |
| API with OAuth and Laravel Passport | 📖 [Laravel Passport](https://laravel.com/docs/passport) 🎬 [Laravel API Auth Demo: Passport, oAuth and Sanctum](https://www.youtube.com/watch?v=8myQdPL8I1s) |
| Only-API Projects with Front-end like Vue.js / React.js | 🔠 [Vue.js 3 + Laravel 9 SPA: CRUD with Auth](https://laraveldaily.com/course/vue-laravel-spa?utm_source=github&utm_campaign=roadmap) 🔠 [React.js + Laravel: SPA CRUD with Auth](https://laraveldaily.com/course/react-laravel-spa?utm_source=github&utm_campaign=roadmap) |
| Only-API Projects with Mobile Apps | 🔠 [Flutter Mobile App with Laravel API](https://laraveldaily.com/course/flutter-laravel?utm_source=github&utm_campaign=roadmap) 📄 [Using Sanctum to authenticate a mobile app](https://laravel-news.com/using-sanctum-to-authenticate-a-mobile-app) |
| **(optional) Starter Kits: Laravel Jetstream and Fortify** |  |
| Laravel Jetstream (requires Livewire/Inertia knowledge) | 📖 [Laravel Jetstream](https://jetstream.laravel.com/) 🔠 [Laravel Jetstream+Livewire: Real Mini-Project](https://laraveldaily.teachable.com/p/laravel-jetstream-livewire-project?utm_source=github&utm_campaign=roadmap) 🎬 [Laravel Jetstream: How it Works and Example How to Customize](https://www.youtube.com/watch?v=d8YgWApHMfA) |
| Laravel Fortify | 📖 [Laravel Fortify](https://laravel.com/docs/fortify) 🎬 [Laravel Fortify: Four Auth Things to Customize](https://www.youtube.com/watch?v=Vr4LJU3kw1g) |
| **Payments** |  |
| Laravel Cashier with Stripe/Paddle | 📖 [Laravel Cashier (Stripe)](https://laravel.com/docs/billing) 📖 [Laravel Cashier (Paddle)](https://laravel.com/docs/cashier-paddle) |
| Custom Payment Providers: PayPal, Mollie, etc | 📄 [Subscription billing with Laravel Cashier for Mollie](https://github.com/laravel/cashier-mollie) 📄 [How To Integrate Paypal Payment Gateway In Laravel](https://websolutionstuff.com/post/how-to-integrate-paypal-payment-gateway-in-laravel) |
| **Automated Testing Advanced** |  |
| TDD: Test-Driven Development | 🔠 [Build A Laravel App With TDD](https://laracasts.com/series/build-a-laravel-app-with-tdd) 🔠 [TDD With Laravel](https://tddwithlaravel.com/) |
| Mocking | 📖 [Mocking](https://laravel.com/docs/mocking) |
| (optional) Laravel Dusk | 📖 [Laravel Dusk](https://laravel.com/docs/dusk) |
| **Full-Text Search** |  |
| Laravel Scout | 📖 [Laravel Scout](https://laravel.com/docs/scout) |
| Drivers: ElasticSearch, Algolia or MeiliSearch | 📄 [ElasticSearch Driver for Laravel Scout](https://laravel-news.com/explorer) 📖 [Algolia: Scout Extended](https://www.algolia.com/doc/framework-integration/laravel/getting-started/introduction-to-scout-extended/?client=php) 📄 [Full-Text Search with MeiliSearch and Laravel Scout](https://tighten.co/blog/full-text-search-with-meilisearch-and-scout/) |
| **Laravel Packages** |  |
| Contributing to Packages, making Pull Requests | 🎬 [How to Contribute to Laravel Docs (or any open-source repository)](https://www.youtube.com/watch?v=vEcT6JIFji0) |
| Create Laravel Packages | 📖 [Package Development](https://laravel.com/docs/packages) 🔠 [Laravel Package Development](https://laravelpackage.com/) |

**Senior Level**

Responsibility for architecture decisions on large projects

**Link icons: 📖 Official Docs 🎬 Video 📄 Article 🔠 Course**

| **Topic** | **Learning Links** |
| --- | --- |
| **PHP/Laravel Design Patterns** | 🎬 [Laravel Design Patterns - Bobby Bouwmann - Laracon EU 2018 Amsterdam](https://www.youtube.com/watch?v=qpo5KG0vIyE) 🔠 [Laracasts: Design Patterns in PHP](https://laracasts.com/series/design-patterns-in-php) 🎬 [Colin Decarlo - Design Patterns with Laravel [Laracon 2018]](https://www.youtube.com/watch?v=e4ugSgGaCQ0) 🎬 [Matt Stauffer - Patterns That Pay Off [Laracon 2018]](https://www.youtube.com/watch?v=enTb2E4vEos) 🔠 [Design Patterns in PHP](https://refactoring.guru/design-patterns/php) 📄 [Design Patterns for Humans](https://github.com/kamranahmedse/design-patterns-for-humans) |
| Creational Design Patterns | 📄 [Design Patterns: Creational](https://refactoring.guru/design-patterns/creational-patterns) |
| Structural Design Patterns | 📄 [Design Patterns: Structural](https://refactoring.guru/design-patterns/structural-patterns) |
| Behavioral Design Patterns | 📄 [Design Patterns: Behavioral](https://refactoring.guru/design-patterns/behavioral-patterns) |
| **Well-written Code** |  |
| SOLID Code | 🔠 [SOLID Code in Laravel](https://laraveldaily.com/course/solid-laravel?utm_source=github&utm_campaign=roadmap) 🎬 [Becoming a better developer by using the SOLID design principles by Katerina Trajchevska](https://www.youtube.com/watch?v=rtmFCcjEgEw) 📄 [Writing Maintainable Code: SOLID Principles Explained in PHP (Laravel)](https://geekflare.com/php-solid-principles/) 🔠 [Laracasts: SOLID Principles in PHP](https://laracasts.com/series/solid-principles-in-php) 🎬 [PHP Solid Principles [Playlist]](https://www.youtube.com/watch?v=ARxZV8OZ8Cg&list=PLNuh5_K9dfQ3jMU-2C2jYRGe2iXJkpCZj) |
| Scalable Code | 🔠 [Scaling Laravel](https://courses.serversforhackers.com/scaling-laravel) 🎬 [Enterprise Laravel by Matt Stauffer](https://enterpriselaravel.com/) 📄 [What the hell is scalable code anyway?](https://blog.sarasarya.com/what-the-hell-is-scalable-code-anyway-f6626ad78227) |
| Maintainable Code | 🔠 [10+ Laravel Refactoring Examples](https://laraveldaily.com/course/laravel-refactoring?utm_source=github&utm_campaign=roadmap) 📄 [How would you know if you've written readable and easily maintainable code? [forum thread]](https://softwareengineering.stackexchange.com/questions/141005/how-would-you-know-if-youve-written-readable-and-easily-maintainable-code) 📄 [Crafting maintainable Laravel applications](https://jasonmccreary.me/articles/crafting-maintainable-laravel-applications/) 📄 [7 Golden Rules of Clean, Simple and Maintainable Code](https://shhetri.github.io/clean-code/#/) |
| Best Practices and Standards | 📄 [Repository: alexeymezenin / laravel-best-practices](https://github.com/alexeymezenin/laravel-best-practices) 🔠 [PHP: The Right Way](https://phptherightway.com/) 📄 [Reddit: What are your Laravel best practices?](https://www.reddit.com/r/laravel/comments/f34t86/what_are_your_laravel_best_practices/) |
| **Large Datasets** |  |
| Large Database Structures | 🔠 [How to Structure Databases in Laravel](https://laraveldaily.com/course/laravel-database-structure?utm_source=github&utm_campaign=roadmap) 🔠 [GraphQL in Laravel From Scratch](https://laraveldaily.com/course/graphql-laravel?utm_source=github&utm_campaign=roadmap) |
| NoSQL Solutions | 📖 [MongoDB and Laravel Integration](https://www.mongodb.com/compatibility/mongodb-laravel-intergration) 📄 [MongoDB + Laravel = Love — When to use NoSQL](https://faun.pub/when-to-use-nosql-getting-started-with-mongodb-in-laravel-f5376ceaf545) |
| Eloquent/SQL Query Optimization | 🔠 [Better Eloquent Performance](https://laraveldaily.com/course/eloquent-performance?utm_source=github&utm_campaign=roadmap) 📄 [18 Tips to optimize laravel database queries](https://dudi.dev/optimize-laravel-database-queries/) 📄 [Optimizing Laravel Part 2: Improving Query Performance with Database Indexing](https://deliciousbrains.com/optimizing-laravel-database-indexing-performance/) 🔠 [Eloquent Performance Patterns](https://eloquent-course.reinink.ca/) |
| Scaling to Multiple Databases | 📄 [Scaling Laravel App with Multiple Databases](https://devdojo.com/bobbyiliev/scaling-laravel-app-with-multiple-databases) 📄 [Multiple DB Connections in Laravel](https://fideloper.com/laravel-multiple-database-connections) |
| **Working with High-Traffic Projects** |  |
| Stability and Zero-Downtime Deployments | 📖 [Laravel Deployer](https://github.com/deployphp/deployer) 📖 [Envoyer - Zero Downtime PHP Deployment](https://envoyer.io/) |
| Performance Optimization and Caching | 🔠 [Performant Laravel](https://serversforhackers.com/laravel-perf) 📄 [The Ultimate Performance Checklist For Laravel Apps](https://laravel-news.com/performance-checklist) 📄 [How to Optimize PHP Laravel Web Application for High Performance?](https://geekflare.com/laravel-optimization/) |
| **Ensuring Code Quality** |  |
| Writing Testable Code | 📄 [How to write testable code](https://dev.to/ddarrko/how-to-write-more-testable-code-oi7) 📄 [Refactoring towards testability](https://madewithlove.com/blog/software-engineering/refactoring-untestable-code-towards-testability/) |
| Continuous Integration and Continuous Delivery (CI/CD) | 📄 [How to create a CI/CD for a Laravel application using GitHub Actions](https://blog.logrocket.com/how-to-create-a-ci-cd-for-a-laravel-application-using-github-actions/) 📄 [Configure Laravel 8 for CI/CD with Jenkins and GitHub — Part 1](https://faun.pub/configure-laravel-8-for-ci-cd-with-jenkins-and-github-part-1-58b9be304292) 📄 [Build, Test, and Deploy Your Laravel Application With GitHub Actions](https://www.twilio.com/blog/build-test-deploy-laravel-application-github-actions) |