

Laravel Framework Fundamentals

**Building Modern PHP Applications
with Clean Architecture and Best Practices**

Preface

When I first encountered **Laravel**, I experienced something rare in the world of software development: a framework that felt like it was *designed for the developer*, not the other way around. Laravel's elegant syntax, thoughtful conventions, and vibrant ecosystem have made it the most popular PHP framework in the world – and for good reason. It empowers developers to build robust, modern web applications without drowning in boilerplate code or fighting against the tools meant to help them.

Laravel Framework Fundamentals was written with a single, clear purpose: to take you from your very first Laravel project to the confidence and competence of a professional Laravel developer. Whether you're a PHP developer looking to adopt a modern framework, a programmer transitioning from another language, or a newcomer eager to build real web applications, this book provides the structured, practical foundation you need.

What This Book Covers

This book is organized as a progressive journey through the Laravel framework. We begin by answering the essential question – *Why Laravel?* – and then walk through setting up a proper development environment so you can start building immediately.

From there, we dive into Laravel's core building blocks: **routing**, **controllers**, and the powerful **Blade templating engine**. You'll learn how Laravel handles

forms and HTTP requests with grace, and how its expressive tools make common tasks feel effortless.

A significant portion of the book is dedicated to working with data. We explore database configuration, the **Eloquent ORM**, advanced query techniques, model relationships, and database best practices – because nearly every meaningful application revolves around data, and Laravel provides one of the most elegant approaches to managing it.

Security and authentication are not afterthoughts here. You'll learn how to implement **authentication** using Laravel's built-in systems and how to protect your application against common vulnerabilities. We also cover **building RESTful APIs**, an essential skill in today's interconnected world of single-page applications and mobile clients.

The book rounds out with chapters on **testing** and **deployment** – two disciplines that separate hobbyist projects from professional-grade applications. Finally, we chart a course for your continued growth as a Laravel developer, ensuring this book is not an endpoint but a launchpad.

How to Use This Book

The chapters are designed to be read sequentially, with each one building on concepts introduced earlier. However, if you already have experience with Laravel, you'll find that individual chapters stand well on their own as focused references. The **five appendices** – including a Laravel command cheat sheet, common Eloquent patterns, security configuration checklist, REST API design checklist, and a curated learning path – are resources you'll return to long after you've finished reading.

What You'll Gain

By the end of this book, you won't just *know* Laravel – you'll understand the **principles** and **architectural patterns** behind it. You'll write cleaner code, make better design decisions, and approach new features with the confidence that comes from a solid foundation. Laravel rewards developers who invest in understanding its conventions, and this book is that investment.

Acknowledgments

This book would not exist without the extraordinary work of **Taylor Otwell** and the Laravel community, whose commitment to developer experience and open-source excellence continues to inspire millions of developers worldwide. I'm also deeply grateful to the countless tutorial authors, package maintainers, and community members whose shared knowledge has shaped the Laravel ecosystem into what it is today.

To every reader picking up this book: thank you for choosing to learn Laravel. You're joining a community that values elegant code, practical solutions, and the belief that building for the web should be a creative, joyful endeavor.

Let's build something remarkable.

Happy coding – and welcome to Laravel.

Nico Brandt

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Chapter 1: Why Laravel?

Every developer reaches a crossroads at some point in their career. You have learned the fundamentals of PHP, you have written scripts that connect to databases, you have built small applications with raw code, and now you stand at the threshold of something bigger. You need structure. You need organization. You need a framework that does not just help you write code but helps you write *better* code. This is where Laravel enters the conversation, and this is where your journey as a modern PHP developer truly begins.

Before we write a single line of code, before we install anything on our machines, we need to understand *why* Laravel exists, what problems it solves, and why millions of developers around the world have chosen it as their primary tool for building web applications. This chapter is not about syntax or configuration. It is about philosophy, context, and making an informed decision about the tool you are about to invest significant time learning.

The Problem That Frameworks Solve

In the early days of PHP development, building a web application meant writing everything from scratch. You would create a file called `index.php`, write your HTML directly inside it, mix in database queries using raw `mysqli` or `PDO` calls, handle form submissions with `$_POST` and `$_GET` superglobals, and manage user sessions manually. For a small project, this approach worked well enough. But as applications grew in complexity, this approach became a nightmare.

Consider what happens when you build a medium-sized application without a framework. You need to handle routing, which means figuring out which code should execute when a user visits a particular URL. You need to manage database connections and write SQL queries safely to prevent injection attacks. You need to validate user input, manage authentication, handle file uploads, send emails, and dozens of other common tasks. Without a framework, you end up writing all of this infrastructure code yourself, and you write it differently every single time.

The result is what experienced developers call "spaghetti code." Logic is tangled together, business rules live next to presentation code, database queries are scattered across dozens of files, and making a change in one place breaks something in another. Testing becomes nearly impossible, onboarding new team members takes weeks instead of days, and the application becomes increasingly fragile over time.

Frameworks exist to solve this exact problem. A framework provides a structured, organized, and tested foundation upon which you build your application. It handles the repetitive infrastructure tasks so that you can focus on what makes your application unique: your business logic, your features, and your users' experience.

The PHP Framework Landscape

PHP has no shortage of frameworks. Over the years, the ecosystem has produced several notable options, each with its own philosophy and strengths. Understanding where Laravel fits in this landscape helps you appreciate why it has become the dominant choice.

Framework	Initial Release Philosophy	Primary Strength
CodeIgniter	2006	Simplicity and speed
Symfony	2005	Enterprise-grade components
CakePHP	2005	Convention over configuration
Zend/Laminas	2006	Enterprise architecture
Yii	2008	Performance
Laravel	2011	Developer happiness

Laravel arrived later than most of its competitors, which turned out to be a significant advantage. Taylor Otwell, the creator of Laravel, had the benefit of observing what worked and what did not work in existing frameworks. He studied CodeIgniter's simplicity, Symfony's powerful components, and Ruby on Rails' emphasis on convention over configuration. He then synthesized these ideas into something new, something that prioritized the developer experience above all else.

Laravel did not try to reinvent the wheel. In fact, it built directly on top of many Symfony components, leveraging their stability and maturity while wrapping them in a more expressive and intuitive interface. This decision was both pragmatic and brilliant. It meant that Laravel inherited years of battle-tested code while presenting it in a way that felt fresh and enjoyable to use.

The Philosophy of Developer Happiness

What sets Laravel apart from other PHP frameworks is not a single feature or technical capability. It is a philosophy. Taylor Otwell has stated repeatedly that Laravel is designed to make developers happy. This might sound like marketing language, but when you begin working with Laravel, you feel it in every interaction with the framework.

Developer happiness in the context of Laravel means several things. It means that the syntax reads like natural language whenever possible. It means that common tasks require minimal boilerplate code. It means that the documentation is thorough, well-written, and filled with practical examples. It means that the framework anticipates what you need and provides elegant solutions before you even realize you need them.

Consider a simple example. In raw PHP, reading a value from a configuration file might involve parsing an array, checking if the key exists, providing a default value if it does not, and handling potential errors. In Laravel, the same operation looks like this:

```
$appName = config('app.name', 'My Application');
```

This single line reads the name value from the app configuration file and returns 'My Application' as a default if the value is not found. It is clean, readable, and immediately understandable even to someone who has never seen Laravel before. This principle of expressiveness and clarity runs through every aspect of the framework.

Another example involves database queries. In raw PHP with PDO, fetching all active users ordered by their name requires several lines of code involving pre-

pared statements, parameter binding, and result fetching. In Laravel, the same operation reads like this:

```
$users = User::where('active', true)->orderBy('name')->get();
```

This is not just shorter. It is more readable, more maintainable, and less prone to errors. The Eloquent ORM, which powers this syntax, handles SQL injection prevention, connection management, and result hydration behind the scenes. You express *what* you want, and Laravel figures out *how* to do it.

The Ecosystem That Surrounds Laravel

One of the most compelling reasons to choose Laravel is not the framework itself but the ecosystem that has grown around it. Laravel is not just a framework. It is a complete platform for building, deploying, and managing web applications. Understanding this ecosystem is crucial because it means that as your needs grow, Laravel has tools ready to meet them.

Tool	Purpose	Description
Laravel Forge	Server Management	Provisions and manages servers on cloud providers like DigitalOcean, AWS, and Linode
Laravel Vapor	Serverless Deployment	Deploys Laravel applications to AWS Lambda for auto-scaling serverless architecture
Laravel Envoyer	Zero-Downtime Deployment	Handles deployment pipelines with zero downtime for production applications
Laravel Nova	Administration Panel	A beautifully designed admin panel that integrates deeply with Eloquent models

Laravel Horizon	Queue Monitoring	Provides a dashboard for monitoring Redis-powered queues
Laravel Telescope	Debug Assistant	Offers deep insight into requests, exceptions, queries, and more during development
Laravel Sanctum	API Authentication	Lightweight authentication system for single-page applications and simple APIs
Laravel Breeze	Starter Kit	Minimal authentication scaffolding with Blade, Vue, or React
Laravel Jetstream	Starter Kit	Full-featured authentication scaffolding with teams, two-factor auth, and more
Laravel Sail	Docker Environment	A lightweight command-line interface for interacting with Laravel's Docker configuration
Laravel Pint	Code Style	An opinionated PHP code style fixer built on top of PHP-CS-Fixer
Laravel Cashier	Billing	Provides an expressive interface to Stripe and Paddle subscription billing services
Laravel Scout	Full-Text Search	Adds full-text search capability to Eloquent models using Algolia, Meilisearch, or others
Laravel Socialite	OAuth Authentication	Handles authentication with Facebook, Twitter, Google, GitHub, and other OAuth providers

This ecosystem means that when you learn Laravel, you are not learning an isolated tool. You are entering a world where common application needs, from payment processing to real-time broadcasting to full-text search, have first-party solutions that integrate seamlessly with the framework. This reduces the time you spend evaluating third-party packages, reading incompatible documentation, and gluing disparate tools together.

The Community and Learning Resources

A framework is only as strong as the community behind it, and Laravel has one of the largest and most active communities in the PHP world. This matters for practical reasons. When you encounter a problem, the likelihood that someone else has encountered and solved the same problem is high. When you search for a solution, you find blog posts, forum discussions, video tutorials, and Stack Overflow answers in abundance.

The official Laravel documentation is widely regarded as some of the best documentation in the open-source world. It is written in clear, accessible language, updated with every release, and filled with practical code examples that you can use directly in your projects. This is not accidental. The Laravel team considers documentation a first-class concern, not an afterthought.

Beyond the official documentation, the Laravel community produces an extraordinary volume of educational content. Laracasts, a video tutorial platform created by Jeffrey Way, offers thousands of screencasts covering Laravel and related technologies. The platform has become so popular that many developers consider it an essential companion to the official documentation. Conferences like Laracon bring developers together from around the world to share knowledge, techniques, and inspiration.

The community also contributes thousands of open-source packages through Composer, PHP's dependency manager. The Packalyst website catalogs these packages, making it easy to find solutions for nearly any requirement. Need to generate PDF files? There is a Laravel package for that. Need to implement role-based access control? There are several well-maintained packages to choose from. Need to add multi-tenancy to your application? The community has you covered.

The Architecture That Makes Laravel Powerful

Laravel follows the Model-View-Controller architectural pattern, commonly known as MVC. This pattern separates your application into three distinct layers, each with a clear responsibility.

The **Model** layer represents your data and business logic. In Laravel, models are PHP classes that correspond to database tables. They define relationships between data, contain validation rules, and encapsulate the business rules that govern how your data behaves. When you create a `User` model in Laravel, it automatically knows how to interact with the `users` table in your database, how to create new records, how to update existing ones, and how to define relationships with other models.

The **View** layer handles the presentation of data to the user. Laravel uses a templating engine called Blade, which allows you to write clean, readable templates that combine HTML with simple PHP directives. Blade templates are compiled into plain PHP and cached for performance, meaning that the elegance of the syntax comes with no performance penalty.

The **Controller** layer acts as the intermediary between models and views. Controllers receive incoming HTTP requests, interact with models to retrieve or modify data, and return responses, usually in the form of rendered views. They are the traffic directors of your application, coordinating the flow of data between the user interface and the database.

This separation of concerns is not unique to Laravel, but Laravel implements it in a way that feels natural and unforced. You never feel like you are fighting the framework to organize your code properly. The directory structure, naming conventions, and built-in tools all guide you toward clean architecture without requiring you to read a textbook on design patterns.

Beyond MVC, Laravel incorporates several other architectural patterns that contribute to its power and flexibility. The Service Container, which we will explore in detail in later chapters, provides a powerful dependency injection system that makes your code modular and testable. The Facade pattern gives you a convenient, static-like syntax for accessing services while maintaining the testability of dependency injection. The middleware system allows you to filter HTTP requests entering your application, providing a clean mechanism for authentication, logging, CORS handling, and more.

What You Will Build With Laravel

To make this learning journey concrete, let us consider the types of applications that Laravel excels at building. Laravel is a general-purpose web framework, meaning it can handle virtually any web application you can imagine, but it particularly shines in certain areas.

Content management systems, e-commerce platforms, social networks, SaaS applications, REST APIs, real-time applications with WebSockets, job boards, learning management systems, project management tools, and customer relationship management systems are all well within Laravel's capabilities. Companies of all sizes use Laravel in production, from solo developers building their first SaaS product to large enterprises managing millions of users.

Throughout this book, we will build progressively complex applications that exercise different aspects of the framework. You will start with simple routes and views, progress to database-driven applications with full CRUD operations, implement authentication and authorization, build APIs, work with queues and background jobs, and eventually deploy your application to a production server. Each chapter builds on the previous one, and by the end, you will have a comprehensive

understanding of Laravel and the confidence to build professional-grade applications.

Setting Expectations for This Book

This book assumes that you have a working knowledge of PHP. You should be comfortable with variables, arrays, functions, classes, and basic object-oriented programming concepts. You do not need to be an expert, but you should be able to read and write PHP code without constantly referring to the language documentation.

You should also have a basic understanding of HTML, CSS, and how web applications work at a high level. You should know what HTTP requests and responses are, what a database is, and what SQL does, even if you are not proficient in writing complex queries.

If you are completely new to PHP, I recommend spending some time with the fundamentals before diving into Laravel. The framework will make much more sense when you understand the language it is built upon. If you have experience with another framework, whether in PHP or another language like Ruby on Rails, Django, or Express.js, you will find many familiar concepts in Laravel, and you may be able to move through the early chapters more quickly.

Note: Every command, configuration option, and code example in this book is specific to Laravel. When we discuss concepts that exist in other frameworks or languages, we always bring the discussion back to how Laravel implements those concepts. This is a Laravel book through and through.

Exercise: Reflecting on Your Development Journey

Before we move to the next chapter where we will install Laravel and set up our development environment, take a moment to complete this reflective exercise. Write down your answers to the following questions. They will help you establish a baseline for your learning and give you something to look back on as you progress through the book.

1. What is the largest PHP application you have built without a framework?
What challenges did you face as it grew in complexity?
2. List three repetitive tasks you find yourself doing in every PHP project.
How do you think a framework like Laravel might help with these tasks?
3. What type of application do you want to build with Laravel? Be specific about the features it would need.
4. Look at the ecosystem table earlier in this chapter. Which three tools interest you the most, and why?
5. On a scale of one to ten, how comfortable are you with object-oriented PHP? This will help you gauge how much additional study you might need alongside this book.

There are no right or wrong answers to these questions. They are designed to activate your thinking and connect the abstract concepts in this chapter to your personal experience and goals. Keep your answers somewhere accessible because we will revisit them at the end of the book to measure how far you have come.

The next chapter marks the beginning of our hands-on work. We will install PHP, Composer, and Laravel itself. We will explore the directory structure of a fresh Laravel project, understand what each folder and file does, and run our application

for the first time. The philosophy and context from this chapter will come alive as you see Laravel in action. Let us move forward.

Chapter 2: Setting Up Your Development Environment

Before you can write a single line of Laravel code, you need a properly configured development environment. This chapter walks you through every step of that process, from installing the foundational tools to creating your first Laravel project and understanding the structure of what gets generated. Think of this chapter as building the workshop before you start crafting furniture. A well-organized, correctly configured environment will save you countless hours of frustration and allow you to focus on what truly matters: building excellent applications.

Many developers, especially those new to modern PHP development, underestimate the importance of this stage. They rush through installations, skip configuration steps, and then spend days debugging problems that have nothing to do with their application logic. We are going to take a different approach here. We will move deliberately, understand what each tool does and why it matters, and by the end of this chapter, you will have a rock-solid foundation on which to build everything that follows in this book.

Understanding the Prerequisites

Laravel is a PHP framework, which means PHP itself is the first and most fundamental requirement. However, Laravel does not work with just any version of PHP. Each major release of Laravel specifies a minimum PHP version, and as of Laravel 11, you need PHP 8.2 or higher. This is not an arbitrary restriction. Laravel takes advan-

tage of modern PHP features such as enums, fibers, readonly properties, and intersection types that only exist in recent versions of the language.

Beyond PHP itself, Laravel depends on several PHP extensions that must be installed and enabled. The following table provides a comprehensive overview of the required and commonly recommended extensions:

Extension	Purpose	Required
OpenSSL	Encryption and secure communication	Yes
PDO	Database abstraction layer	Yes
Mbstring	Multibyte string handling for internationalization	Yes
Tokenizer	PHP code tokenization for Blade templates	Yes
XML	XML parsing and generation	Yes
Ctype	Character type checking	Yes
JSON	JSON encoding and decoding	Yes
BCMath	Arbitrary precision mathematics	Yes
Fileinfo	File type detection	Yes
cURL	HTTP requests to external services	Recommended
GD or Imagick	Image manipulation	Recommended
Zip	Archive handling for package management	Recommended

You can verify which extensions are currently installed on your system by running the following command in your terminal:

```
php -m
```

This will output a list of all loaded PHP modules. To check your current PHP version, use:

```
php -v
```

The output should show something like PHP 8.2.x or higher. If your version is older, you will need to upgrade before proceeding.

The second critical tool is Composer, the dependency manager for PHP. If you have worked with Node.js, think of Composer as the PHP equivalent of npm. It handles downloading packages, resolving dependency trees, and autoloading classes. Laravel itself is installed through Composer, and virtually every third-party package you will use in your Laravel projects is managed by it.

To install Composer, visit the official website at getcomposer.org and follow the installation instructions for your operating system. On macOS and Linux, the process typically looks like this:

```
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"  
php composer-setup.php  
php -r "unlink('composer-setup.php');"  
sudo mv composer.phar /usr/local/bin/composer
```

After installation, verify that Composer is accessible globally:

```
composer --version
```

You should see output indicating the Composer version, such as Composer version 2.7.x. Make sure you are running Composer 2, as it offers significant performance improvements over the original version.

A database server is the third essential component. Laravel supports multiple database systems out of the box, including MySQL, PostgreSQL, SQLite, and SQL Server. For local development, SQLite is the simplest option because it requires no separate server process and stores the entire database in a single file. However, if your production environment will use MySQL or PostgreSQL, it is wise to develop against the same database engine to avoid subtle compatibility issues. The following table summarizes the supported databases:

Database	Default Port	Best For
SQLite	N/A (file-based)	Quick prototyping, small applications, testing
MySQL	3306	General web applications, widely supported hosting
PostgreSQL	5432	Complex queries, advanced data types, enterprise applications
SQL Server	1433	Enterprise environments with Microsoft infrastructure

Finally, you need Node.js and npm for frontend asset compilation. Even if you are building a purely API-driven application, Laravel's default scaffolding includes Vite for asset bundling, and many development commands expect Node.js to be present. Install the LTS (Long Term Support) version from nodejs.org:

```
node -v
npm -v
```

Installing Laravel Using Composer

With all prerequisites in place, you are ready to install Laravel. There are two primary methods for creating a new Laravel project, and understanding both is important.

The first and most straightforward method uses the `composer create-project` command. This tells Composer to download the Laravel project skeleton along with all its dependencies:

```
composer create-project laravel/laravel my-first-app
```

Let us break down this command piece by piece. The `create-project` directive tells Composer you want to create a new project from a package template. The `laravel/laravel` argument specifies the package to use as the template, which

is the official Laravel application skeleton. The `my-first-app` argument is the name of the directory that will be created to hold your project. You can name this anything you like.

This command will take a minute or two depending on your internet connection. Composer downloads the Laravel skeleton, resolves all dependencies, downloads those as well, and then runs post-installation scripts that generate your application key and set up initial configuration.

The second method involves installing the Laravel Installer globally, which provides a dedicated `laravel` command:

```
composer global require laravel/installer
```

After this, make sure your global Composer vendor bin directory is in your system PATH. On macOS and Linux, add this to your shell profile:

```
export PATH="$HOME/.composer/vendor/bin:$PATH"
```

On Windows, the path is typically `%USERPROFILE%\AppData\Roaming\Composer\vendor\bin`. Once configured, you can create new projects with:

```
laravel new my-first-app
```

The Laravel installer provides an interactive experience that asks you several questions about how you want to configure your project. It will prompt you to choose a starter kit (such as Breeze or Jetstream for authentication scaffolding), your preferred testing framework (Pest or PHPUnit), your database engine, and whether you want to initialize a Git repository. For now, you can accept the defaults or choose "None" for the starter kit, as we will explore those options in later chapters.

Regardless of which method you choose, the end result is the same: a fully functional Laravel application in your specified directory.

A note about version selection: If you need a specific version of Laravel, you can specify it with the Composer method:

```
composer create-project laravel/laravel my-first-app "11.*"
```

This ensures you get the latest patch release within the Laravel 11 series.

Choosing a Local Development Server

Once your project is created, you need a way to serve it locally. Laravel provides several options, each with different levels of complexity and capability.

The simplest option is Laravel's built-in development server, which you can start with the Artisan command:

```
cd my-first-app
php artisan serve
```

This starts a lightweight PHP development server on `http://localhost:8000`. The terminal will display a message confirming the server is running, and you can visit that URL in your browser to see the Laravel welcome page. This server is perfectly adequate for learning and simple development, but it handles only one request at a time, making it unsuitable for testing concurrent operations.

For a more robust local development experience, Laravel offers several official tools. The most prominent among them are Laravel Herd and Laravel Sail.

Laravel Herd is a native desktop application available for macOS and Windows. It bundles PHP, Nginx, and other services into a single, easy-to-manage application. Herd requires no Docker knowledge and provides a seamless experience where your Laravel sites are automatically available at `http://your-project-name.test`. Installation is as simple as downloading the application from herd.laravel.com and running the installer.

Laravel Sail is a Docker-based development environment that comes pre-configured with your Laravel project. If you are comfortable with Docker or want an environment that closely mirrors a production server, Sail is an excellent choice. To set up Sail with a new project:

```
cd my-first-app
composer require laravel/sail --dev
php artisan sail:install
```

The installer will ask which services you want to include, such as MySQL, PostgreSQL, Redis, Memcached, MeiliSearch, MinIO, and Mailpit. Select the ones relevant to your project. Once installed, start the environment with:

```
./vendor/bin/sail up
```

This command downloads the necessary Docker images and starts all selected services. Your application becomes available at `http://localhost`. To run Artisan commands within the Sail environment, prefix them with `sail`:

```
./vendor/bin/sail artisan migrate
./vendor/bin/sail composer require some/package
./vendor/bin/sail npm install
```

The following table compares these development server options:

Feature	php artisan serve Laravel Herd	Laravel Sail
Setup Complexity	Minimal	Low
Requires Docker	No	No
Multiple Sites	No	Yes (with configuration)
Database Included	No	Optional
Redis/Queue Support	No	Optional
Production Parity	Low	Medium

Performance	Good	Excellent	Good
Custom PHP Version	System PHP	Bundled versions	Docker-based versions

For beginners following this book, `php artisan serve` is perfectly sufficient to get started. As your projects grow more complex, consider transitioning to Herd or Sail.

Exploring the Laravel Directory Structure

Navigate into your newly created project directory and take a careful look at what was generated. Understanding the directory structure is essential because Laravel follows a convention-over-configuration philosophy, and knowing where things belong will make you dramatically more productive.

```
my-first-app/
  app/
  bootstrap/
  config/
  database/
  public/
  resources/
  routes/
  storage/
  tests/
  vendor/
  .env
  artisan
  composer.json
  package.json
  vite.config.js
```