



ELEVO LABS

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Course Overview

Course Details

Course Name: Mastering Laravel: Build Production-Ready Web Applications

Instructor: John Doe

Created On: 16 June, 2025

Updated On: 16 June, 2025

Price: 7000 INR

Duration: 7 Weeks

Modules: 13

Language: English, Hindi

Level: Beginner, Expert

Certifications: Yes

Course Description

This hands-on Laravel course teaches you to build robust web applications using PHP's most popular framework. Ideal for beginners and PHP developers, it covers everything from MVC architecture and Blade templating to authentication, service containers, event handling, and API development. This bootcamp is designed to be highly student-friendly, breaking down complex topics into digestible lessons, while still ensuring you master the advanced features needed for real-world applications.

You'll start with Laravel setup, routing, controllers, and Blade views, then dive into form handling, validation, and Eloquent ORM for database interactions. A dedicated module will

deep dive into how Laravel code is executed, understanding its request lifecycle and the role of middleware. You'll then master Eloquent Models and Observers for advanced database interaction. The course also covers essential database management with migrations and seeders, robust error handling and logging, localization for multi-language support, service providers, dependency injection, events & listeners, job queues, and building RESTful APIs with Sanctum.

Through real-world examples and a capstone project, you'll gain practical experience and master Laravel's powerful features, ready to deploy a complete app by the end.

What You'll Learn:

- Understanding the MVC (Model-View-Controller) architectural pattern in Laravel.
- Setting up a Laravel development environment and using Composer.
- Mastering Laravel Routing, Controllers, and Middleware.
- Building dynamic UIs with Blade templating (layouts, components, directives).
- Handling HTTP Requests, Forms, and comprehensive Validation.
- In-depth understanding of Laravel's code execution, HTTP request lifecycle, and middleware.
- Deep dive into Eloquent ORM for seamless database interactions and relationships, including Model Events & Observers.
- Implementing user Authentication and Authorization (Gates, Policies).
- Understanding and utilizing Laravel's Service Container, Service Providers, and Facades.
- Working with Events & Listeners, Queues, and Task Scheduling for asynchronous operations.
- Developing RESTful APIs with JSON resources and Laravel Sanctum for API authentication.
- Implementing File Storage, Sending Emails, and Notifications.
- Writing automated tests with PHPUnit for robust applications.
- Robust Error Handling and Logging.
- Implementing Localization for multi-language applications.
- Managing database schema with Migrations and populating data with Seeders.
- Debugging Laravel applications effectively.
- Strategies for deploying Laravel applications to production.

Who Is This Course For?

This course is ideal for absolute beginners who want to start with Laravel and PHP-based web development. It's also a great fit for experienced developers looking to sharpen their skills, adopt Laravel best practices, and build production-ready applications. Whether you're a student, freelancer, backend engineer, or full-stack developer, this course will help you take your Laravel expertise to the next level.

Prerequisites:

- **Solid PHP Fundamentals:** A strong understanding of PHP syntax, variables, data types, control structures, functions, arrays, and basic OOP (classes, objects) is essential.
- **Basic MySQL/Database Knowledge:** Familiarity with basic SQL queries (CRUD) and database concepts.
- **Basic HTML & CSS:** Understanding of web page structure and styling.
- **Command Line Basics:** Comfort with basic terminal commands (e.g., navigating directories, running scripts).
- **A Computer/Laptop:** A working computer (Windows, macOS, or Linux) with an internet connection.
- **A Willingness to Learn:** Enthusiasm for building powerful web applications.

Includes a real-world project and certificate on completion. Available in English and Hindi.

Course Curriculum Details

Module 1: Module 1: Getting Started with Laravel & PHP Foundation	
6 Lessons	
1. 1. Introduction to Laravel: What it is and Why Use it?	15min
2. 2. Understanding the MVC Pattern in Laravel's Context	20min
3. 3. PHP & Composer Refresher (Prerequisites Recap)	25min
4. 4. Setting Up Your Laravel Development Environment (Composer, Valet/XAMPP/Laragon, Sail/Docker Overview)	40min

5. 5. Laravel Directory Structure Deep Dive **20min**

6. 6. Recap & Practical Task: Setup a New Laravel Project and Explore its Structure
45min

Module 2: Module 2: Routing, Controllers & Basic Middleware

9 Lessons

1. 7. Basic Routing: Defining Web Routes and Closures **20min**

2. 8. Route Parameters (Required and Optional) & Regular Expressions **25min**

3. 9. Named Routes and Route Helpers (`route()`) **20min**

4. 10. Route Groups, Prefixes, and Namespaces **25min**

5. 11. Creating and Using Controllers to Handle Requests **30min**

6. 12. Route Model Binding for Cleaner Code **25min**

7. 13. Introduction to Middleware: Filtering HTTP Requests **20min**

8. 14. Creating and Registering Custom Middleware **25min**

9. 15. Recap & Practical Task: Build a Simple Blog with Multiple Routes and Controllers
1hr

Module 3: Module 3: Blade Templating & Advanced Views

7 Lessons

1. 16. Introduction to Blade Templating Engine **20min**

2. 17. Blade Directives: `@if`, `@foreach`, `@include`, `@extends`, `@section`, `@yield`
30min

- 3. 18. Blade Layouts: Master Layouts and Child Views 25min
- 4. 19. Blade Partial and Components (Anonymous Components) 30min
- 5. 20. Passing Data to Views and View Composers 25min
- 6. 21. Asset Management with Vite/Laravel Mix (Basic Setup) 30min
- 7. 22. Recap & Practical Task: Create a Reusable Website Layout with Blade 1hr

Module 4: Module 4: Forms, Requests & Validation

9 Lessons

- 1. 23. Handling Form Submissions (GET & POST Requests) 25min
- 2. 24. CSRF Protection: Understanding and Implementing 20min
- 3. 25. Request Validation: Built-in Validation Rules 35min
- 4. 26. Displaying Validation Errors in Views 20min
- 5. 27. Custom Validation Rules and Messages 25min
- 6. 28. Form Requests for Organized Validation 30min
- 7. 29. Old Input: Repopulating Forms After Validation Errors 15min
- 8. 30. File Uploads in Laravel 25min
- 9. 31. Recap & Practical Task: Build a Form with Comprehensive Validation and File Upload 1hr 15min

Module 5: Module 5: Laravel Code Execution, Request Lifecycle & Middleware Deep Dive

7 Lessons

1. 32. How Laravel Handles an HTTP Request (Overall Flow) **25min**
2. 33. The `public/index.php` Entry Point and Bootstrap Process **30min**
3. 34. The HTTP Kernel: Understanding the Request Handling Pipeline **35min**
4. 35. Middleware Deep Dive: Global, Grouped, and Route Middleware **40min**
5. 36. Understanding the Response Lifecycle: How Responses are Sent **30min**
6. 37. Error Handling and Exception Reporting within the Lifecycle **25min**
7. 38. Recap & Practical Task: Trace a Request's Journey Through Laravel **1hr**

Module 6: Module 6: Database & Eloquent ORM

12 Lessons

1. 39. Database Configuration and Connecting Laravel to MySQL **20min**
2. 40. Migrations: Managing Database Schema Changes **30min**
3. 41. Seeders and Factories: Populating Databases with Dummy Data **30min**
4. 42. Introduction to Eloquent ORM: Models and Their Basics **25min**
5. 43. CRUD Operations with Eloquent: Create, Retrieve, Update, Delete **35min**
6. 44. Eloquent Relationships: One-to-One, One-to-Many **35min**
7. 45. Eloquent Relationships: Many-to-Many and Polymorphic Relations **40min**
8. 46. Query Scopes (Local and Global) **20min**
9. 47. Query Builder: Advanced Query Construction **25min**

10. 48. Aggregates and Raw Expressions **20min**

11. 49. Soft Deletes **15min**

12. 50. Recap & Practical Task: Build a Task Management System with Eloquent **1hr 30min**

Module 7: Module 7: Eloquent Models Deep Dive & Observers

6 Lessons

1. 51. Eloquent Models Revisited: Deeper Understanding of Model Lifecycle **25min**

2. 52. Model Events: Understanding and Utilizing Model Hooks (creating, created, updating, updated, deleting, deleted, etc.) **35min**

3. 53. Using Closures for Simple Model Event Handling **25min**

4. 54. Creating and Registering Model Observers for Centralized Event Logic **35min**

5. 55. Benefits of Observers for Separation of Concerns and Reusability **20min**

6. 56. Recap & Practical Task: Implement Custom Logic Using Model Observers for User Creation **1hr**

Module 8: Module 8: Authentication & Authorization

9 Lessons

1. 57. Introduction to Laravel's Authentication System **20min**

2. 58. Setting Up Authentication with Laravel Breeze (or Jetstream overview) **35min**

3. 59. Customizing Authentication Logic **30min**

4. 60. Understanding Guards and Providers **25min**

5. 61. Introduction to Authorization **20min**

6. 62. Authorization with Gates: Defining Simple Abilities **30min**

7. 63. Authorization with Policies: Object-Oriented Authorization **35min**

8. 64. Using Authorization Middleware **20min**

9. 65. Recap & Practical Task: Implement User Login, Registration, and Basic Role-Based Access **1hr 30min**

Module 9: Module 9: Service Container, Service Providers & Facades

7 Lessons

1. 66. Understanding the Service Container: The Heart of Laravel **25min**

2. 67. Binding Classes and Interfaces to the Container **30min**

3. 68. Dependency Injection (DI) in Laravel: Constructor & Method Injection **35min**

4. 69. Service Providers: Registering and Booting Services **30min**

5. 70. Creating and Registering Custom Service Providers **25min**

6. 71. Introduction to Laravel Facades: Static Proxies to Container Bindings **25min**

7. 72. Recap & Practical Task: Create a Custom Service and Register it via a Service Provider **1hr**

Module 10: Module 10: Events & Listeners

4 Lessons

1. 73. Defining and Dispatching Events **20min**

2. 74. Creating and Attaching Listeners to Events **25min**

3. 75. Event Subscribers for Multiple Event Handling **20min**

4. 76. Recap & Practical Task: Implement Event/Listener for User Registration **45min**

Module 11: Module 11: File Storage, Mail & Notifications

8 Lessons

1. 77. File Storage Abstraction (Local vs. Cloud Storage like S3) **25min**

2. 78. Uploading and Retrieving Files in Laravel **30min**

3. 79. Sending Emails with Mailables **30min**

4. 80. Customizing Mail Templates and Attachments **25min**

5. 81. Introduction to Notifications (Database, Mail, SMS, Slack Channels) **30min**

6. 82. Creating and Sending Custom Notifications **25min**

7. 83. Implementing Localization for Multi-Language Applications **30min**

8. 84. Recap & Practical Task: Implement a User Profile Picture Upload and a Welcome Email **1hr 15min**

Module 12: Module 12: Testing, Debugging & Error Handling

6 Lessons

1. 85. Debugging Laravel Applications (`dd()`, Laravel Debugger, Tinker) **30min**

2. 86. Laravel's Error Handling and Logging System **25min**

3. 87. Introduction to PHPUnit and Unit Testing **30min**

4. 88. Writing Feature Tests (HTTP Tests) **40min**

5. 89. Database Testing Techniques **30min**

6. 90. Recap & Practical Task: Write Tests for a Controller and an Eloquent Model **1hr 15min**

Module 13: Module 13: Deployment, Optimization & Beyond

10 Lessons

1. 91. Environment Configuration (`.env`) and App Keys **20min**

2. 92. Optimizing Laravel for Production (Caching, Route/Config Caching) **30min**

3. 93. Deployment Strategies: Shared Hosting, VPS, Laravel Forge/Vapor (Conceptual) **35min**

4. 94. Composer for Production and Autoloader Optimization **20min**

5. 95. Setting Up Cron Jobs for Task Scheduling **20min**

6. 96. Introduction to Horizon (for Queues) and Telescope (for Debugging) **25min**

7. 97. Exploring the Laravel Ecosystem (Livewire, Inertia.js, Filament - Conceptual) **20min**

8. 98. Final Capstone Project: Build a Complete Web Application (Review) **1hr 30min**

9. 99. Course Summary and Next Steps in Your Laravel Journey **30min**

10. 100. Recap & Final Project Submission **1hr**

This curriculum is subject to minor adjustments to ensure the most up-to-date and effective learning experience.