

# Laravel PHP Framework

**Duration: 5 Days**

**Prerequisites:**

To ensure that you can successfully undertake training in the Laravel PHP Framework course offered by Koenig Solutions, the following minimum prerequisites are recommended:

- Basic understanding of PHP and its syntax
- Familiarity with HTML and CSS for web page structure and styling
- Knowledge of object-oriented programming (OOP) concepts in PHP
- Experience with using command-line interfaces (CLI)
- Familiarity with the Model-View-Controller (MVC) design pattern
- Understanding of how to use a web server such as Apache or Nginx
- Basic knowledge of database concepts and SQL
- Comfortable working with a code editor or integrated development environment (IDE)
- These prerequisites are intended to provide you with a solid foundation for learning Laravel and to maximize the benefits of the course. However, if you have a strong desire to learn and are ready to invest the necessary time and effort, our instructors will guide you through the learning process to help you become proficient in Laravel

**Course Description:**

The Laravel PHP Framework course is designed to offer comprehensive training for both new and experienced developers looking to enhance their web application development skills. Through this course, learners will dive into the architectural foundations of Laravel, including Service Providers, Service Containers, Facades, and the Request Life Cycle. Starting with Module 2, participants will learn how to set up and install Laravel, configure a web server, and understand the project structure. As they progress through modules on Basic Routing, Responses, Middleware, and Controllers, students will gain hands-on experience building robust applications. Advanced topics such as Blade Templates, Routing, URL Generation, Request Data, and Forms will help learners create a fully functional web application. The course also covers Validation, Database usage, the Eloquent ORM for database interactions, and crucial features like Authentication and Authorization. By the end of this Laravel framework training, participants will have a strong understanding of how to build and maintain modern web applications with Laravel, making them valuable assets in the development industry.

**Target Audience:**

The Laravel PHP Framework course offers in-depth training for developers interested in mastering modern web development with Laravel.

- PHP Developers seeking to upgrade their framework knowledge
- Web Developers looking to learn Laravel for new or existing projects
- Full-Stack Developers who wish to incorporate Laravel into their backend skillset
- Backend Developers aiming to enhance their proficiency in PHP with Laravel
- Software Engineers interested in modern MVC frameworks
- Junior Developers aspiring to specialize in PHP/Laravel development
- Technical Leads managing PHP development teams
- IT Professionals wanting to transition into web development
- Computer Science students or graduates aiming to increase their employability
- Freelancers seeking to offer Laravel development services
- Entrepreneurs planning to deploy web applications using Laravel

**Course Outlines:**

- 1 Architecture Foundation
  - Service Providers
  - Service Containers
  - Facades
  - Request Life Cycle
  - Application Structure
- 2 Setup & Installation
  - Requirement
  - Installation
  - Web Server Configuration
  - Project Structure
- 3 Basic Routing
  - Basic Routing
  - Route Parameters
- 4 Responses
  - Views
  - Redirects
  - Custom Responses
- 5 Middleware
  - Introduction
  - Defining Middleware
  - Registering Middleware
- 6 Controllers
  - Introduction
  - Basic Controllers
  - Controller Middleware

- Implicit Controllers
- RESTful Resource Controllers
- 7 Blade Templates
  - Creating Templates
  - PHP Output
  - Control Structures
  - Templates
  - Template Inheritance
- 8 6 Advance Routing
  - Named Routes
  - Secure Routes
  - Parameter Constraints
  - Route Prefixing
  - Domain Routing
- 9 URL Generation
  - The Current URL
  - Generating Framework URLs
  - Asset URLs
  - Generation Shortcuts
- 10 Request Data
  - Retrieval
  - Old Input
  - Upload Files
  - Cookies
- 11 Forms
  - Forms
  - Fields
  - Buttons
  - Security
- 12 Validation
  - Validation
  - Controller Validation
  - Form Request Validation
  - Working with Error Messages
  - Error Messages and Views
  - Available Validation Rules
  - Custom Error Messages
  - Custom Validation Rules
- 13 Basic Database Usage
  - Configuration
  - Read/Write Connections
  - Running Queries
  - Database Transaction
  - Accessing Connections
- 14 Query Builder
  - Introduction
  - Selects
  - Join
  - DML Queries
- 15 Schema Builder
  - Creating Tables
  - Column Types
  - Special Column Types
  - Column Modifiers
  - Updating Tables
  - Dropping Tables
  - Schema Tricks
- 16 Migrations
  - Basic Concept
  - Creating Migration
  - Rolling Back
  - Migration Tricks
- 17 Eloquent ORM
  - Creating new models
  - Reading Existing Models
  - Updating Existing Models
  - Deleting Existing Models
- 18 Eloquent Queries
  - Preparation
  - Eloquent to string
  - Query Structure
  - Magic Queries
  - Query Scopes
- 19 Eloquent Relationship
  - Relationships
  - Implementing Relationship
  - Relating and Querying
- 20 Authentication
- 21 Authorization

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