

# 30 Days Laravel (Advanced) Master Learning Plan

## Day 1-3: Introduction to Laravel Advanced Concepts

Topics: Understanding the Laravel ecosystem, Advanced routing techniques, Route caching

Exercises: Create advanced route structures and optimize route performance

Resources: Official Laravel Docs

## Day 4-5: Middleware in Laravel

Topics: Creating custom middleware, Middleware groups, Global middleware

Exercises: Create and implement middleware for request filtering

## Day 6-7: Service Providers

Topics: Understanding service providers, Registering and booting services

Exercises: Write a custom service provider for application configuration

## Day 8-10: Dependency Injection & Service Container

Topics: Laravel service container, Binding services, Dependency injection

Exercises: Implement dependency injection throughout the application

## Day 11-12: Queues and Jobs

Topics: Laravel Queue system, Dispatching jobs, Queue workers

Exercises: Implement a queue for handling background jobs

## Day 13-15: Event Broadcasting

Topics: Real-time event broadcasting, Working with WebSockets, Laravel Echo

Exercises: Create a real-time notification system using Laravel Echo

## **Day 16-17: Caching Strategies**

Topics: Advanced caching techniques, Using Redis for caching

Exercises: Implement Redis-based caching for a high-performance application

## **Day 18-20: Database Performance Optimization**

Topics: Query optimization, Eloquent performance tips, Indexing

Exercises: Optimize Eloquent queries and database performance

## **Day 21-23: Advanced Eloquent ORM**

Topics: Eloquent relationships (many-to-many, polymorphic), Query scopes, Eloquent events

Exercises: Build complex queries using advanced Eloquent techniques

## **Day 24-25: API Development with Laravel**

Topics: Building RESTful APIs, API authentication (Sanctum, Passport), Rate limiting

Exercises: Create and secure an API with Laravel Sanctum

## **Day 26-28: Testing in Laravel**

Topics: Unit testing, Feature testing, Mocking

Exercises: Write comprehensive tests for your application using PHPUnit

## **Day 29-30: Build a Full Advanced Laravel Project**

Topics: Project planning, Implementing advanced features

Exercises: Build a complete Laravel project with advanced features like real-time notifications, queues, and API development