

Course : Laravel, mastering PHP web development

Practical course - 3d - 21h00 - Ref. LAE

Price : 2150 CHF E.T.



4,6 / 5

You will learn to develop with the Laravel 12 framework. Its structure is designed to be elegant and lightweight, within the framework of MVC development and respect for Design Patterns. Laravel will enable you to write Web applications faster and more easily maintainable.



Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Installing and configuring Laravel 12
- ✓ Mastering Laravel components
- ✓ Handling data with Eloquent ORM
- ✓ Design forms and check data validation
- ✓ Creating secure Web applications

Intended audience

PHP developers and architects.

Prerequisites

Good knowledge of PHP. Basic knowledge of Object Oriented Programming.

Practical details

Exercise

This course is based on the complete creation of a classified ads website.

Teaching methods

Alternating between lectures, case studies and practical exercises.

Course schedule

PARTICIPANTS

PHP developers and architects.

PREREQUISITES

Good knowledge of PHP. Basic knowledge of Object Oriented Programming.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

1 Concept Model View Controller

- Syntax reminder: UML, Classes, Inheritance, Abstraction, Interfaces and Features.
- Relevance and implementation of different Design Patterns.
- PHP implementation of a complete 3-tier MVC architecture.
- Laravel 12 approach. Overview of MVC kinematics.

2 Basic concepts

- Laravel architecture and configuration: overview.
- Complete installation and organization of PHP Laravel (Composer and Setup).
- Basic routing management and routing to the controller.
- Build personalized responses.

Hands-on work

Installation and configuration of Laravel 5.x. Create your first application.

3 Discovering the strengths of MVC

- HTTP requests (middleware vs. filters).
- The service container and facades.
- The Controllers' approach.
- Web services (REST) with Laravel.
- Templates: creation, control structure and inheritance.

Hands-on work

Create views and use templates for the application.

4 Advanced settings

- Advanced routing: named, secure routes and parameter constraints.
- URL generation: assets and shortcuts.
- HTTP data: inputs, uploads and cookies.
- Forms: fields, buttons, macros and security.
- Validation: rules and error handling.

Hands-on work

Create forms with URL generation. Add pages to the Web application.

5 Working with the database

- Abstraction: configuration and preparation.
- The graphical schema designer : "Schema Designer".
- Creation of Migrations and Rollback.
- Working efficiently with Eloquent ORM.
- Query generation with Eloquent.
- Relationships between models.

Hands-on work

Setting up the Web application model layer using ORM.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

6 Authentication in Laravel

- Password management and DSS.
- The different modes.

Hands-on work

Implement authentication for the application.

7 Overview of the Laravel ecosystem

- Laravel Dusk for testing.
- Laravel Forge for deployment.
- Laravel Echo for asynchronous communication.
- Laravel telescope for debugging.

Dates and locations

REMOTE CLASS

2026 : 9 Mar., 22 June, 4 Nov.