

Updated on 11/27/2025

Register

Advanced Symfony Training

2 days (14 hours)

Overview

Symfony is a set of PHP components and a free MVC framework written in PHP. It provides modular and adaptable features that facilitate and accelerate website development. Symfony 8 is the new version of the framework launched on November 21, 2019. It has established itself in the web development market thanks to its lightness and ease of installation with Symfony Flex. This new way of developing applications has won over companies such as BlaBlaCar.com and Spotify.com, which now use Symfony. Other frameworks such as Laravel and Magento rely on Symfony components. This strong enthusiasm enabled Symfony to pass the billion download mark in 2017.

In this training course, you will deepen your knowledge of Symfony 8 by using Symfony components in their entirety. Creating a Twig extension will allow you to have a unique personalized page. You will also learn about error management and debugging so that your site is optimized. Finally, you will be able to deploy your applications on a cloud server while using the appropriate security methods.

As in all our training courses, we will use the latest stable version of [Symfony 8](#) software.

Objectives

- Deepen and master advanced Symfony concepts
- Learn best practices for the framework
- Understand the inherent mechanisms of the tool
- Use Symfony in a secure environment

Target audience

Web project managers, technical architects, developers

Prerequisites

- Proficiency in PHP 8.5
- Proficiency in object-oriented programming (OOP)
- Proficiency in HTML and CSS
- Knowledge of Symfony or, ideally, completion of our [Symfony](#) training course

Technical prerequisites

- Latest version of PHP installed
- Symfony CLI installed to work locally

Note: Ambient IT does not own the technology; Symfony™ is a registered trademark of Symfony SAS.

Program for our Symfony 8 training course: Advanced

PRESENTATION OF NEW FEATURES

- Developments, Differences & Changes
- Presentation of new features in Symfony 5, 6, 7, and 8

DEPENDENCY INJECTION & SERVICE REGISTRY

- IoC concepts: DependencyInjection Component
- Registering new services in the service container
 - Injection Container & Service Locator
- Extending the framework's features with "tags"
 - Custom service tags

ADVANCED FORMS

- CollectionType management
 - Add an element dynamically using the prototype
 - Make linked items persistent
 - Delete an item dynamically
 - Validate subforms
- Understanding Twig: customizing form display
- Make the "slug" field optional (required option)
- Form validation with Symfony
 - Using constraints provided by default by Symfony
 - Creating custom constraints

- Using EntityType Field

MASTERING SYMFONY COMPONENTS

- Command
 - Creating your own command
 - Managing options
 - Managing Arguments
 - Retrieve an application service
- Process
- Config
- YML Dumper
- Finder
- Crawler and Filesystem

RELATIONSHIP WITH THE DATABASE

- Making our fake data more realistic with Faker
- Easily create slugs with String Component (alternative to Slugify or StofDoctrineExtensionsBundle)
- Graph showing the events in an entity's lifecycle
- Doctrine
 - Interact with the Entity lifecycle
 - Relationships between entities:
 - OneToMany
 - ManyToOne

SYMFONY EVENT MANAGEMENT

- Understanding how events work
- Creating your own events

USING TWIG

- Designing a Twig extension
- Designing functions
- Designing filters
- Understanding error page management in a Symfony 8 application
- Create a custom 404 error page and test it manually
- Create a custom 403 error page and test it manually
- Pay attention to caching in a production environment

SECURING YOUR SYMFONY PAGES

- Set up form authentication with the "Guard" component
- Update the Fixture to create fake users

- Encrypting our users' passwords
- Discovering the UserInterface
- Authentication:
 - Declare a new provider (User entity)
 - Create the login form
 - Actually authenticate the user
 - Allow the user to log out
 - Identify errors with the AuthenticationUtils class
- Create the registration form: RegistrationType
- Test the current user's rights from a controller or view
- Save custom authorization rules with the "voters" system

ADDITIONAL MODULE: DEPLOYING APPLICATIONS IN PRODUCTION (+1 DAY ONLY UPON REQUEST FOR IN-HOUSE TRAINING)

- Creating a Git repository and first code push
- Discovering the .gitignore file and ignored files
- Shared hosting: introduction
- Generate the .htaccess file with the symfony/apache-pack
- Shared hosting
 - Publishing with SSH access
 - Uploading without SSH
 - Performing updates without SSH
 - Performing updates with SSH
- Cloud Deployment: Symfony Cloud (Heroku alternative)
 - Setting up the application
 - Deployment from your local environment
 - Database setup and updates

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Companies concerned

This training is aimed at both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Positioning at the start of training

The positioning at the start of the training complies with Qualiopi quality criteria. Upon final registration, the learner receives a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and discussion sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.