

Course Name : **MASTERING SYMFONY FRAMEWORK**
Duration : **4 Days (Physical Classroom / Virtual Live Instructor)**
Skill Level : **Beginner**

COURSE DESCRIPTION:

Embark on a transformative journey into Symfony PHP framework with our intensive four-day course. From foundational principles to advanced techniques, you'll gain invaluable insights into building robust web applications efficiently. Whether you're a novice or a seasoned developer, our hands-on approach ensures practical learning, empowering you to master Symfony's capabilities with confidence.

Delve into Symfony's architecture, mastering project setup, route creation, and template rendering using Twig. Explore controllers, models, and ORM with Doctrine, enabling seamless implementation of CRUD operations. Advance your skills with topics like routing, services, and dependency injection. In the final phase, elevate your frontend prowess by integrating CSS frameworks like Bootstrap, handling forms, managing assets, and implementing AJAX functionality. By the course's end, you'll be primed to deploy your Symfony applications effectively, poised to excel in the dynamic realm of web development.

WHAT WILL YOU LEARN?

In this comprehensive Symfony PHP framework course, you will acquire the essential skills needed to develop dynamic web applications with confidence. You will gain proficiency in setting up Symfony projects, creating routes, and rendering templates using the Twig templating engine. Through practical exercises, you'll master controllers, models, and ORM with Doctrine, enabling you to efficiently handle HTTP requests, implement CRUD operations, and manage database migrations. Furthermore, you will explore advanced topics such as routing, services, and dependency injection, equipping you with the tools to build scalable and maintainable applications. Additionally, you'll elevate your front-end development skills by integrating CSS frameworks, handling form submissions, managing assets, and implementing AJAX functionality. By the end of the course, you'll be well-equipped to deploy Symfony applications confidently and embark on your journey as a proficient Symfony developer.

PREREQUISITE:

Beginners. Knowing PHP is an added advantage.

METHODOLOGY:

This program will be conducted with interactive lectures, PowerPoint presentations, discussions, and practical exercises. This course can be conducted as instructor-led (ILT) or virtual instructor-led training (VILT).

JOB SCOPE:

Upon completion of this course, candidates may pursue the following career paths:

- Symfony Developer
- Full Stack Web Developer
- PHP Developer (Symfony)
- Symfony Consultant
- Backend Developer

DAY 1: INTRODUCTION TO SYMPHONY PHP

- Welcome
- Introduction to PHP frameworks
- Understanding the Symfony PHP framework
- Installing Symfony PHP
- Setting up a project in Symfony
- Exploring the directory structure
- Creating and configuring routes
- Creating and rendering templates
- Using the Twig templating engine

DAY 2: WORKING WITH CONTROLLERS AND MODELS

- Creating controllers and actions
- Handling HTTP requests and responses
- Implementing CRUD operations with Doctrine ORM
- Defining and using entities and repositories
- Performing database migrations with Doctrine

DAY 3: ADVANCED ROUTING AND SERVICES

- Using route parameters and placeholders
- Implementing custom route requirements
- Generating URLs and redirects
- Understanding services and dependency injection
- Configuring and using service containers
- Implementing authentication and authorization

DAY 4: FRONTEND DEVELOPMENT WITH SYMPHONY

- Integrating CSS frameworks (e.g., Bootstrap) with Symfony
- Implementing form handling and validation
- Managing assets (CSS, JavaScript) in Symfony
- Using assetic for asset management
- Implementing AJAX functionality
- Writing unit tests with PHPUnit
- Testing controllers and models
- Setting up continuous integration with Travis CI
- Preparing your Symfony application for deployment
- Deploying to a hosting environment (e.g., Heroku)

CONCLUSION

- QA
- Useful References and Books
- Feedback