

# Module: Symfony - web development

In this training, you will learn the concepts of Symfony and how to create MVC web applications using this framework: installation, MVC pattern, templating with Twig, controllers, ORM Doctrine and models, forms, services and events, security of web applications.

**Prerequisites** : Programming concepts, use PHP language.



**Ways to take this course:** Online Instructor Led  
Online self-paced  
Video On Demand

**Video conference tool:** ZOOM

**Duration:** 28 H (4 days)

## Forms and security

Creating forms  
BuildForm, createFormBuilder  
Processing and validation  
Authentication and sessions  
User provider  
Roles and Security

## Services

Dependency Injection  
Symfony services  
Autowiring and DI  
Configuring services  
Go further

## OUTLINE

### Introduction

OOP and MVC concepts  
Benefits of using Symfony  
Install, configure  
Composer, Git, Symfony CLI, PSR  
How it works  
Creating a Symfony Project

### Create a page, routing, tests

HTTP stream: request / response  
Create the webpage  
Routing in Symfony  
PHPUnit for testing  
Perform your first tests  
Best Coding Practices

### Views with Twig

Twig Syntax  
Base template, inheritance  
Variable / {{ }}  
Alternative structures  
Loops, filters  
Pre-defined functions  
Dynamic URLs  
Help on templates

### Use Doctrine ORM

What is Doctrine  
Doctrine Components  
Composer.json, bootstrap, CLI  
Mapping Basics  
Creating entities, "Symfony maker"  
Migrations and Databases  
EntityManager, EntityRepository  
Relationships between entities  
CRUD on entities, fixtures  
QueryBuilder, Fetch Modes

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## OUTLINE

### Events, Observer

Intro  
Propagation of events  
subscribers and listeners  
Some important events  
Go further

### Assets and Webpack Encore

Webpack Encore and Yarn  
Installation and Setup  
Optimize assets

### Deployment

The different stages  
VPS and SSH Setup  
DNS zone configuration  
Install: PHP, MySQL, Node, Yarn  
Install NGINX  
Preparing the project and GitHub  
HTTPS: implementation