

Updated on 01/07/2024

Sign up

Magento 2 Training: Advanced Backend

5 days (35 hours)

Presentation

Magento 2 is an open-source e-commerce platform written in PHP. The software was initially developed by Varien Inc in November 2015, based on Framework Zend. The first open-source e-commerce CMS with its modular infrastructure, Magento offers freedom to e-merchants by giving them full control over their websites as well as complete customization. The great diversity of its ecosystem, the performance of its plugins and the wealth of themes developed have enabled Magento to rank among the [top five](#) CMS used on e-commerce sites in France. With over 250,000 merchants worldwide, Magento alone holds 30% of the e-commerce CMS market. Proof of its global success Magento was acquired in May 2018 by Adobe.

This Magento 2 training course teaches you how to install, configure and develop using all the possibilities of a Magento site, from catalog management to marketing operations that will boost your website's performance. With the help of practical exercises, this training course will give you the skills you need to understand and extend the functional possibilities of your Magento 2 websites.

What's more, our expert trainer is Magento certified, so he'll be able to give you the keys to building your website projects.

As in all our training courses, we'll be using the latest version of the [Magento 2.4](#) CMS (released in December 2018 at the time of writing) coupled with [PHP 8](#).

Objectives

- Discover what's new in Magento 2
- How to use a Magento installation as a store manager
- How to set up and maintain a complete, personalized boutique
- Knowing where information & configurations come from to develop a theme and an extension

Target audience

Developer, Tech Lead, Technical Architect

Prerequisites

- Knowledge of HTML 5 and CSS 3, and PHP 7
- [Test My Knowledge](#)

Magento 2 : Advanced Backend in PHP 8 training program

Tour de table & presentation of everyone's background

Day 1 - Introduction and versions

- Versions
 - Difference between Magento 2 and Magento 2 Enterprise
 - Pricing: understanding your pricing policy
 - Extra features
- Alternatives to Magento
 - Prestashop
 - Symfony 4
 - Other
- Prejudices or commercial arguments

Setting up

- Prerequisites
- A ready-to-use system
 - The bin / Magento command line
 - Magento installation
 - Source files
 - A Vhost in place
 - Installation
 - Magento crons
 - Language packages
- Bonus: Migrating from an existing system / collaborating with another system
- Workshop: using a standard Magento installation

General environment

- Connection - essential safety features
 - The users
 - The roles
 - The admin way
 - Access to files
- Configuration: overview and important changes
 - Strategic configuration locations
 - Store management: initial approach and impact on Magento levels
 - Store > Configuration: table core_config_data
- Workshop: having a store with an orderable product

Day 2 - Shop data

- Data structure in Magento - EAV model
- Product attributes and attribute sets
- Product categories
- Special products in detail
- Various promotions
- Configure taxes
- General terms and conditions

Day 2 & 3 - The day-to-day store

- The complete order cycle
- Customer and customer group management
- Inventory management
- Imports / exports

Day 3 & 4 - Adding pages to my site and editing the design

- Static elements
- Summary of how Magento's appearance works by discovering the magento / luma theme
 - Theme declaration
 - Web folder and static.php in dev
 - Templates
 - Layout
- Automatic emails
- Custom variables
- Translations
- Workshop: creating a theme

Day 4 & 5 - Magento extension

- The structure of an extension
- Installing an extension
- Create an extension
- Overloading a piece of code
 - Using Dependency Injection (IoC)
 - The logger, UriInterface and StoreManager and TransportBuilder
- Store - read data from database - CRUD
 - Create model, resource, collection
 - Create APIs for data extraction
 - Making API calls to Magento 2
 - Define extension roles
- Using helpers
- Make my extension admin-configurable
- Make my table available to the admin via a grid
- Completely overload Magento code
- Create a FrontOffice route to interact with the extension
- Using a layout
- Declaring a block
- Using Main Factories
- Product call, modification and deletion
- Using Magento Core APIs
- Working on the event
- Create an order
- Cron tasks
- List of useful extensions
- Workshop: building a complete extension

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire enabling us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives with regard to the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

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

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.