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# Vue.Js Advanced Training

2 days (14 hours)

## Presentation

Have you attended our Vuejs training course and would like to learn more? Do you have a Vue.JS application and are having trouble maintaining it? This training course will enable you to become a Vue.JS expert, learning advanced Vue.JS concepts and discovering the breadth of its ecosystem.

In this course, we'll look at the framework's components, how to use best practices in your enterprise project, and all the tricks for boosting your application's performance with Vue.JS tools.

Like all our training courses, this one will introduce you to the latest stable version ([Vue.js 3.5](#)).

## Objectives

- Understanding the advanced concepts of the Vue.js Framework
- Using Vue with Firebase and Cloud Firestore
- Improve application performance

## Target audience

- Vue.JS developers
- Technical architects
- Project managers
- Design engineer

## Prerequisites

- Fundamental knowledge of Vue.JS, or completion of our [Vue.JS Introductory Course](#)
- [Test My Knowledge](#)

## Technical requirements

- Have Node.js installed

## VueJS Advanced training program

### Organizing your application

- Communication between components
- Reorganize the various components
  - Component page
  - Post component
  - Threads in the forums
- Creating categories and collections
- Code organization
- API render and compile
- Patch and Mount functions
- When to use Reuse
- How do I create a mini Vue?
- Manage asynchronous data display

### Controlling Vue 3's responsiveness

- Proxy and Reflect
- activeEffect and ref
- Calculated values

### Token authentication (with or without JWT)

- Structure
- Create an account
- Login
- Disconnect
- Error handling
- Automatic connection

### Vue-Router

- The basics
  - Routes: server-side vs. client-side
  - Dynamic component loading
  - History mode
    - Server-side configuration
  - URL parameters
  - Nested routes / Routes imbriquées
  - Code navigation
  - Redirection
  - Error handling and 404
  - Flash message
- Pagination
- The guards
- Hide pages
- Authorization for authenticated users
- Force the router to destroy components

## Vuefire

- Firebase basics
- Cloud Firestore presentation
- Installation and configuration
- Displaying data from Firebase
- Data modification
- Authentication
- User management
- Migration from Vuex to Cloud Firestore
  - Create Vuex actions to display Firestore data
  - Modifying data and users

## 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.