Updated on 11/10/2024

Sign up

Vue.js 3 training

3 days (21 hours)

Presentation

With our latest-generation Vue.js training course, you'll dive right into modern web development for SPAs (single-page applications). We'll show you how this framework can simplify your code to develop single-page Web interfaces faster and more efficiently than ever before. The richness of its functionalities will enable you to put in place a proven structure to build a professional project over the long term.
We'll teach you how to become self-sufficient through concrete examples, best practices and feedback from our expert trainer, who will be delighted to share his best coding tips with you.

With its large community, Vue has established itself in recent years as THE challenger to front-end technologies. Lightweight and intuitive, it offers a wealth of features, including support that will appeal to both enthusiastic developers and companies concerned with software quality, with an average response time of just a few hours.

Aimed at web developers, this hands-on Vue 3 TypeScript training course gives you a better understanding of how the brand-new version 3 works, detailing all its subtleties. As a training center, we've done our utmost to make it as easy as possible for you to understand it, so that you can quickly and efficiently get to grips with it. As a common thread, we'll be making intensive use of the Composition API, while combining best development practices with TypeScript.

Once you're comfortable and self-sufficient thanks to the progressive acquisition of a solid foundation and exclusive content, and having seen in detail what's under the hood (Routing, Component, Slot, Plugin, patterns etc.), we'll take an in-depth look at Pinea for advanced Storage management.

Finally, we'll test our application with Vitest to make sure we haven't forgotten anything, so we can put our code into production with complete peace of mind.

Our Vuejs 3 training course will alternate theory and feedback from the trainer on the following topics

about the operation of the bookshop and practical exercises. Course material will be provided to each participant in PDF format, and all exercises and assignments will be provided in electronic format.

As with all our training courses, this one will introduce you to the latest version of Vue (at the time of writing: Vuejs 3.5).

Objectives

- Understand the importance and benefits of a development framework
- Master the concepts of HTTP, Rest and JSON communication
- Learn the basics of TypeScript and how to use it in Vue.js
- Learn how to use Vue-Router effectively for navigation in a Vue.js application

Target audience

- Front-end developers
- Tech Lead or Lead Dev
- Web project manager
- Technical architects
- Design engineer

Prerequisites

- Knowledge of HTML and CSS
- Basic knowledge of JavaScript
- Test My Knowledge

Technical requirements

- Have Node.js installed

Vue.js training program

Day 1: Introduction and general information

- What is a development framework and why use one?
- State of the Web in 2024
- Vue.js overview: history and presentation

Some important concepts

- The different web applications
- HTTP, Rest and JSON communication
- The Component paradigm

A few reminders about TypeScript

- Introduction to TypeScript and its use in Vuejs
- Basic types and variables
- Interfaces and classes
- Optional functions and parameters

First step with Vue3

- Developer's tools
- Creating an application
- Getting started with Vue.js architecture
- The Vue.js ecosystem

Bookstore concepts

- The components
- Guidelines
- Event programming

Day 2: Vue.js templating language

- Interpolation
- Attribute binding
- Event binding
- Computed properties
- Using modifiers

Diving into components Vue

- Component life cycle
- Application Instance
- Template references
- Dynamic components

API composition

- The basics
- Responsiveness

- Render function

Advanced management: Slot, Component, Plugin

- Slots and named slots
- Dynamic components
- Plugins

Day 3: Vue-Router

- Vue-Router introduction and usage
- Navigation and route settings
- Navigation guards
- Lazy loading of routing components
- Nested routes

Pinia: The Data Store

- Storage principle
- Pinia, how to manage the overall condition of your SPA
- Actions and getters
- How to type your Pinia blind

Testing Vue components

- How do you test your application so that nothing is left to chance?
- Introduction to Vue-Test-Utils and Vitest
- Installation and configuration
- Component testing Vue
- Simulating events and interactions
- Mocks and stubs
- Testing our application at user level

Conclusion

- Training summary
- Documents delivery
- Some useful resources

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 which enables 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 for 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.