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Sign up

Vite.JS training

2 days (14 hours)

Presentation

Our Vite.js training course offers you a unique opportunity to master a modern, high-performance development tool for front-end web applications.

Designed to meet the needs of developers, this course will enable you to acquire advanced skills in frontend development, performance optimization and integration with popular frameworks.

In this training course, we'll guide you through the essential aspects of [Vite.js](#), from basic installation and configuration to advanced use and production deployment. You'll discover how to use Vite.js features to improve your development workflow and create fast, efficient web applications.

We'll take a detailed look at import management, CSS preprocessor integration, server-mode development with HMR, and the creation of custom plugins. In addition to mastering the basics, you'll explore advanced techniques for optimizing performance and securing your applications.

As with all our training courses, this one will introduce you to the latest stable version ([Vite.js 5.2](#)).

Objectives

- Learn how to install and configure Vite.js
- Managing NPM imports and modules with Vite.js
- Optimizing application performance with Vite.js
- Integrate Vite.js with front-end frameworks such as Vue.js and React

Target audience

- Frontend developers
- Full-stack developers
- Systems architects
- Technical managers
- Web performance engineers

Prerequisites

- Basic knowledge of web development and frontend concepts
- Experience with JavaScript, HTML, and CSS
- Familiarity with bundling tools such as Webpack is a plus
- Understanding of frontend frameworks such as Vue.js or React would be beneficial
- Access to a development environment with Node.js installed

VITE.JS TRAINING PROGRAM

INTRODUCTION TO VITE.JS

- Introducing Vite.js and its creator
- Why choose Vite.js? Comparative advantages with other tools like Webpack
- Overview of the Vite.js ecosystem
- Vite.js installation and basic configuration
- Creating a first simple project

VITE.JS BASIC FEATURES

- Import and NPM module management
- Configuring and using CSS files, images and other resources
- Integration and use of preprocessors such as SASS
- Server-mode development with Hot Module Replacement (HMR)
- Debugging and solving common problems

ADVANCED ASPECTS OF VITE.JS

- Asynchronous import techniques for optimized performance
- Advanced Vite.js configuration for specific needs
- Creating and using custom plugins
- Development environment management and environment variables
- Securing Vite.js applications according to OWASP principles

INTEGRATION WITH FRONT-END FRAMEWORKS

- Using Vite.js with Vue.js 3: configuration and best practices

- Creating a React application with Vite.js
- Integration with other popular JavaScript libraries
- Practical examples of SPA application development with Vite.js
- Routing and state management techniques with Vite.js

OPTIMIZATION AND PERFORMANCE

- Why is Vite.js fast? How to use Esbuild
- Performance comparison with other bundling tools like Webpack
- Techniques for optimizing builds and resource loading
- Lazy loading and code splitting strategies
- Performance analysis and profiling tools

DEPLOYMENT AND DEVOPS

- Best practices for deploying applications developed with Vite.js
- CI/CD pipeline configuration for Vite.js projects
- Using containers and orchestrators for deployment
- Production monitoring and maintenance
- Practical deployment cases on different platforms (Netlify, Vercel, customized servers)

PRACTICAL WORK AND FINAL PROJECTS

- Integration with backend services and APIs
- Creation of reusable templates to accelerate future development
- Presentation of projects to peers and feedback
- Project evaluation and personalized feedback

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 training: 60% Practical, 40% Theory. Training material distributed in

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.