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SvelteKit Training

2 days (14 hours)

Overview

SvelteKit lets you build fast, elegant, and production-ready web applications by combining server-side rendering, advanced routing, data loading, and server-side mutations. With its integrated approach, SvelteKit provides a modern foundation for designing responsive interfaces and robust web architectures.

Our SvelteKit training will take you beyond the basics to master the essential mechanisms of a modern web application, from the project skeleton to production deployment.

You'll learn how to structure routes and layouts, utilize load functions, manage forms and server-side actions, and efficiently organize data sharing between the client and server.

By the end of the course, you'll be able to optimize rendering, reduce client-side JavaScript, secure sensitive data processing, and design a production-ready application with improved maintainability.

This course also covers best practices for testing, deployment preparation, environment management, and ensuring the reliability of a SvelteKit application in a professional setting.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand SvelteKit's architecture and how it works.

- Structure routes, layouts, and pages in a consistent manner.
- Implement data fetching using load functions and shared data.
- Develop robust forms with server-side actions and validation.
- Prepare a SvelteKit application for deployment and maintenance.
- Apply best practices for performance, testing, and security.

Target Audience

- Front-end developer
- JavaScript developer
- Web developer
- Full-stack developer
- Tech Lead

Requirements

- Proficiency in the fundamentals of HTML, CSS, and JavaScript.
- Knowledge of front-end components and architecture concepts.
- Experience with a web framework or a modern development environment.
- Basic understanding of HTTP API consumption and asynchronous data handling.
- Basic experience with TypeScript is a plus.

Technical Requirements

- A recent laptop with at least 8 GB of RAM.
- Stable internet connection via Wi-Fi or Ethernet.
- Up-to-date browsers, ideally Chrome or Firefox.
- Code editor installed, such as Visual Studio Code.
- A recent version of Node.js and the npm or pnpm package manager.

SvelteKit Training Course Outline

[Day 1 - Morning]

SvelteKit Fundamentals

- SvelteKit's place in the modern front-end ecosystem.
- Key principles of the framework, from server-side rendering to client-side rendering.
- Project structure, folder conventions, and navigation logic.
- Understanding the page lifecycle and the role of special files.
- An introduction to environments, configuration, and variables.
- Hands-on workshop: setting up a SvelteKit project, exploring its directory structure, and creating a first functional page.

[Day 1 - Afternoon]

Routing and Composition

- Organizing routes with dynamic segments and URL parameters.
- Building layouts to centralize the user interface and shared logic.
- Handling errors, 404 pages, and custom responses.
- Using components to break down the interface into reusable blocks.
- Introduction to navigation patterns and page transitions.
- Hands-on workshop: Create a multi-page mini-application with a shared layout, dynamic routes, and an error page.

[Day 2 - Morning] Data

and Forms

- Loading data with server-side and client-side load functions.
- Sharing data between pages, layouts, and components with clear logic.
- Form management, validation, and user error feedback.
- Using server actions to handle data changes.
- Best practices for maintaining a clear separation between presentation and business logic.
- Hands-on workshop: developing a complete form with validation, submission, success messages, and error handling.

[Day 2 - Afternoon] Production

and Best Practices

- Optimizing rendering and reducing the amount of JavaScript sent to the browser.
- Managing states, loading, and user interactions.
- Testing, code quality, and organizing a maintainable codebase.
- Deployment, adaptation to environments, and preparation for production.
- Best practices for security, performance, and observability.
- Hands-on workshop: finalizing a deployment-ready SvelteKit application with quality assurance, optimization, and a production checklist.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in a new, advanced IT technology or to acquire specific domain knowledge or modern methodologies.

Prerequisites

The assessment conducted upon enrollment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technology, as well as their personal expectations and objectives.

regarding the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose problems for the monitoring and smooth running of the training session.

Teaching Methods

Hands-On Course: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.