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RemixJS training

2 days (14 hours)

Presentation

RemixJS is a JavaScript framework designed for React, based on Node.js technology. It is capable of creating applications that offer server-side page generation on every request, while providing fluid, optimized rendering.

Remix JS lets you create JavaScript applications with seamless data management between client and server. It has an integrated routing system that's very easy to use. One of Remix's major assets is its SEO optimization, enabling excellent referencing of web applications thanks to server-side rendering and tags.

Our remix training course will introduce you to the fundamental concepts of the framework. You'll learn how to develop a web application project, the Data Fetch concept and the different development modes.

As with all our training courses, we will be presenting the latest version of RemixJS 2.15.2.

Objectives

- Create universal, high-performance web applications with Remix JS
- Mastering SSR and nested routing
- Creating search engine optimized web pages
- Creating static and dynamic sites
- Efficient data fetching with Remix loaders and actions

Target audience

- Full-stack developers
- Front-end developers
- Web developers

Prerequisites

- Knowledge of JavaScript, HTML, CSS
- Basic knowledge of ReactJS or have attended our ReactJS training course

RemixJs training program

Introduction to RemixJS

- What is RemixJS
- Main differences between Remix and NextJS
- Configuration
- Basic functions with RemixJS
- Basic application creation with RemixJS

Routing system and file structure

- Organizing files in Remix
  - road file
  - app folder
- Creating static and dynamic routes
- nested routing
- URL parameter management
- <Link>" "<NavLink>" configuration

Data management with loaders

- Introduction to loaders for data recovery
- Using actions for data submission
- Error handling and user feedback with the "useActionData" command
- API response processing
- Data optimization with loader caching
- Manipulating fetch

Style management and user experience

- Importing and using CSS files in Remix
- Tailwind CSS integration for rapid development
- Smooth transitions between pages with React and Remix
- Specific style management

API integration and interoperability

- REST API consumption with loaders
- integration of the GraphQL API in Remix
- Error and exception handling for API calls
- Using external libraries for queries
- Setting up WebSockets with Remix

Authentication and security

- Integration of a user authentication system with JWT
- Using OAuth for connections via Google or GitHub
- Secure routes with server-side checks
- User session management and secure storage
- Protection against common CSRF and XSS vulnerabilities

Deployment and error handling

- list of deployment options
  - Vercel
  - Netlify
  - AWS
- Setting up production environments
- Global error handling
- Performance monitoring and error tracking in production
- Using logs for debugging and auditing

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 inputs from the trainer supported by examples and

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.