

Updated 06/13/2025

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NextJS 15 training

3 days (21 hours)

Presentation

NextJS is a JavaScript framework built for React and based on Node.js technology. It is capable of creating applications that provide both server-generated pages on each request and static pages generated during the application build.

NextJS lets you create JavaScript applications with code shared between client and server. It has an integrated routing system that's very easy to use. Another advantage of this tool is its contribution to SEO: thanks to Next, you can optimize the referencing of your Singles Pages Apps.

Our Next 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.

These include Server Side Rendering (SSR) and static rendering.

This NextJS training course will teach you the latest version of the NextJS 15 framework.

Objectives

- Creating universal web applications
- Master SSR, SSG and ISR with the NextJS framework
- Creating search engine optimized web pages
- Creating static and dynamic sites
- Implement data fetching via a static (build) or dynamic (run time) strategy

Target audience

JavaScript developers

- Front-end developers
- Web developers

Prerequisites

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

Next.JS training program

DAY 1: GETTING TO GRIPS WITH NEXTJS AND THE BASICS

- - Next.js and its ecosystem: links with React, Vercel, documentation
- Create a new application with CLI create-next-app
- Discover the project structure
- TypeSCript and TailwindCSS
- Implementing a simple multi-page interface
- Adding style to Next.js
- Discover the layout system
- Creating a content page with a dynamic parameter
- Get client-side data via an API call
- Optimize images and fonts
- Navigating between pages

DAY 2: NEXT FULL-STACK WITH ROUTE HANDLERS (API) AND SERVER ACTIONS

- Discover vercel and connect a database
- Retrieving server data (server components vs. client components)
- Understanding the different rendering mechanisms: Static vs Dynamic, Incremental and Partial Streaming
- Search and paginate
- Muting data
- Error handling: 500, 404,...

DAY 3: OPTIMIZATION AND DEPLOYMENT

- Server-side form accessibility and validation
- Add authentication
- Adding metadata, referencing and pwa
- Create a Github repo, pusher your code
- CI/CD Github actions and deployment on vercel
- Overview and summary

Extension (+ 1 day): creating a PWA with Next.JS

INTRODUCTION TO RESPONSIVE DESIGN

- Media queries
- Breakpoints
- Using tailwind for a responsive layout
- Adaptive viewport
- Test a mobile rendering

INTRODUCTION TO PWA

- Features
- Comparison with other mobile approaches (react-native, native code)
- Benefits
- Lifecycle
- Used Services Worker
- The manifest.json file

CREATING A PWA WITH NEXT.JS

- Metadata generation
- Creating application icons in /public
- Using the next-pwa package
- Custom installation prompt
- Vercel deployment
- Smartphone installation

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.