

Contentful API & Next.js training

3 days (21 hours)

Presentation

Contentful is a headless CMS that lets you model, manage and distribute your content. Coupled with Next.js, it delivers fast, SEO-friendly sites that are easy to preview thanks to Preview Mode and ISR.

Our "Contentful API & Next.js" training course teaches you how to model your content, consume APIs (REST, GraphQL, Image), secure access and industrialize your front-end with the App Router, revalidation and CI/CD pipelines.

You'll know how to set up webhooks to trigger your deployments, optimize performance and structure effective editorial governance.

On completion, you'll be able to install and configure Contentful and Next.js, understand their architecture and publish a production-ready site.

Like all our training courses, this one uses the latest [v11.7.15](#) version [of Contentful SDK](#) and [v15 of Next.js](#).

Objectives

- Design a robust content model
- Interrogate CDA/GraphQL and the Image API
- Integrate a Next.js front end (App Router, ISR, Preview Mode)
- Implement webhooks, CI/CD and revalidation
- Optimize SEO, performance and security

Target audience

- Full-stack developers

- Content engineers
- Web project managers
- Product owners
- DevOps

Prerequisites

- JavaScript/TypeScript and React basics
- Next.js basics recommended
- Knowledge of REST/GraphQL APIs and Git
- Operational Node.js LTS environment

Contentful API & Next.js training program

Contentful & Next.js fundamentals

- Headless CMS principles, spaces, environments, templates
- Contentful APIs: CDA, CPA (Preview), CMA, GraphQL
- Next.js 15 architecture and App Router
- Contentful.js SDK vs. GraphQL
- Workshop: Contentful space + Next.js app

Modeling in Contentful

- Content types, fields, validations, references, assets
- Conventions, locales & i18n, editing interface
- Roles, permissions, governance
- Content model migrations
- Workshop: Article / Author / Category model

Content consumption

- Access keys, tokens (read/preview)
- contentful.js queries: getEntries, filters, pagination
- GraphQL API: schemas, fragments, projections
- Image API: formats, quality, resizing
- Atelier: item list + details

Next.js: rendering, cache & ISR

- SSG/SSR and ISR: revalidate, fetch cache
- Preview Mode with Preview API
- Image optimization: <Image> + Contentful assets
- Slugs, dynamic routes, fallback

- Workshop: ISR page with revalidation

Rich rendering & SEO

- Rich Text field: rendering and components
- SEO: metadata API, sitemaps, robots
- Navigation: categories, tags, breadcrumbs
- Accessibility & Core Web Vitals
- Workshop: SEO article templates

Internationalization & customization

- Contentful locales and i18n Next.js
- Conditional content and preview
- Sorting, searching, filters
- Feature flags / A/B (concepts)
- Workshop: multilingual list page

Webhooks & pipelines

- Contentful Webhooks ? Vercel/Netlify
- On-Demand Revalidation (route handlers)
- CI/CD: Actions, secrets, previews
- Observability: logs, quotas, rate limits
- Workshop: rebuild on publication

Security, performance & costs

- Token scope, rotation, server-only
- CDN/Edge caches, SWR, streaming
- Request budgets & costs
- Hardening: CSP, headers, deps auditing
- Workshop: securing API access + profiling

Capstone & go-live

- End-to-end integration (model, rendering, SEO, i18n, ISR)
- Production checklist & rollback plan
- Handover: editor's guide + technical guide
- Roadmap & technical debt
- Workshop: final demo + Vercel deployment

Companies concerned

This training course is aimed at both individuals and companies, large or small,

wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning at training start

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% hands-on, 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.

Certification

A certificate will be awarded to each trainee who has completed the entire course.