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Hygraph Training: GraphQL Headless CMS

2 days (14 hours)

Overview

Hygraph is a GraphQL-native headless CMS that enables you to structure, manage, and distribute multichannel content with powerful modeling, localization, and content APIs. This training course helps you leverage an API-first foundation to design robust editorial workflows tailored to the needs of modern applications.

Our Hygraph: GraphQL Headless CMS training takes you beyond the basics to master the essential uses of a production-oriented CMS. You'll learn how to design a clean content model, organize relationships between content, and manage data through an interface designed for product and content teams.

You'll see how to leverage publishing modes, environments, roles and permissions, as well as webhooks to secure and scale your workflows. The course also covers querying and updating content via GraphQL, with a progressive approach tailored to an intermediate level.

By the end of the course, you'll be able to structure a coherent Hygraph project, manage localized content, optimize editorial organization, and prepare a reliable integration with your front-end applications. You'll also have the right skills to evolve your schema without compromising the existing system.

Finally, this course covers best practices for implementation, media management, access control, and content delivery mechanisms to build a sustainable, maintainable CMS environment ready for professional use.

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

Objectives

- Understand the principles of a native GraphQL headless CMS.
- Design a structured and scalable content schema in Hygraph.
- Manage models, relationships, fields, and localized content.
- Master environments, roles, and permissions.
- Leverage queries, mutations, and webhooks to automate workflows.
- Prepare a reliable integration with a front-end application and follow production best practices.

Target Audience

- Front-end developer
- Full-stack developers
- Web integrator
- Digital Project Manager
- Content Manager

Prerequisites

- Basic knowledge of data modeling and content organization.
- Basic understanding of GraphQL or prior experience with a content API.
- Proficiency in a web environment and a development tool.
- Understanding of the fundamentals of a CMS or headless architecture.
- Ability to read schemas, relationships, and data structures.

Technical Requirements

- A recent computer with an up-to-date browser and sufficient resources for the tasks.
- A stable Internet connection via Wi-Fi or Ethernet.
- A code editor installed, such as Visual Studio Code.
- A GraphQL-compatible API testing tool, depending on your work environment.
- A microphone and headset if you're taking the course remotely.

Our Hygraph Training Program: GraphQL Headless CMS

[Day 1 - Morning] Hygraph

Fundamentals

- Hygraph's position within the headless CMS ecosystem.
- Understanding the API-first model and native GraphQL functionality.
- Overview of the interface, workspaces, and key project components.
- Identifying editorial, multichannel, and product-oriented use cases.

- Review of the content lifecycle, from creation to publication.
- Hands-on workshop: getting started with the Hygraph interface, exploring a sample project, and identifying key areas.

[Day 1 - Afternoon] Content

Modeling

- Building a content schema tailored to business needs.
- Creating models, fields, and relationships between content items.
- Selecting field types, input constraints, and data structuring.
- Managing reusable content and editorial components.
- Best practices for naming conventions, readability, and scalability of the model.
- Hands-on workshop: Designing a complete content model with relationships, structured fields, and editorial logic.

[Day 2 - Morning]

Content, APIs, and Localization

- Creating and managing content entries in Hygraph.
- Exploring automatically generated GraphQL queries.
- Using mutations to create and update data.
- Managing localization to publish content by language or market.
- Working with media and assets associated with content.
- Hands-on workshop: Querying and enriching content via GraphQL by applying multilingual logic.

[Day 2 - Afternoon]

Production, Security, and Deployment

- Organizing environments and separating work contexts.
- Managing roles, permissions, and access by profile.
- Using webhooks to trigger external workflows.
- Best practices for publishing, validating, and promoting content.
- Preparing for integration with a front-end application and principles of reliability.
- Hands-on workshop: Configuring a publishing workflow with permissions, environments, and a trigger webhook.

Relevant companies

This training program is designed for both individuals and businesses—large and small—that wish to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methods.

Placement Assessment at the Start of Training

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for 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 challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 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.