

GraphQL

Cursusduur: 2 Dagen Cursuscode: GRAPHQL Trainingsmethode: Virtual Learning

Beschrijving:

GraphQL Course Overview

GraphQL is a query language for APIs and a query runtime engine. It's an increasingly popular alternative to REST given it enables the client to specify the shape of the representation and it minimises the number of requests required to obtain the desired data.

This course comprises sessions dealing with prerequisite topics including HTTP and REST APIs, core GraphQL theory, the building of GraphQL services and clients, queries, types, and yet more GraphQL theory including introspection and best practices.

Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

Delegates have the option of coding in either Java, Python, or JavaScript.

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Doelgroep:

Who will the Course Benefit?

This course will benefit developers who are required to build or maintain GraphQL services and/or clients, and anyone otherwise interested in what a GraphQL service is, how it works, and how to build a good one.

Doelstelling:

■ Course Objectives

■ This course aims to provide the delegate with the skills and knowledge necessary to design and build good quality GraphQL services.

Vereiste kennis en vaardigheden:

■ Delegates attending this course should have some knowledge of, or experience in, software development. Ideally delegates will be comfortable coding in Java, Python, or JavaScript to a fundamental level.

Vervolg cursussen:

Further Learning

- Core Spring (4 day)
 - Python Programming 2
 - Developing Node.js Web Applications
 - REST APIs
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Cursusinhoud:

GraphQL Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: PREREQUISITES

- APIs
- Web apps
- Web services
- HTTP
- JSON
- Serialisation
- REST APIs

Session 2: GRAPHQL THEORY

- The problem with REST APIs
- What is GraphQL?
- The composition of a GraphQL service
- Queries and mutations
- Schemas and types

Session 3: GRAPHQL SERVICES

- Building a GraphQL service with:
- Spring Boot (Java) or;
- Ariadne (Python) or;
- Apollo (JavaScript)

Session 4: GRAPHQL CLIENTS

- Building a GraphQL client with:
- HttpClient (Java) or;
- GQL (Python) or;
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Session 5: QUERIES

- Arguments
- Aliases
- Fragments
- Operation names
- Variables
- Directives

Session 6: TYPES

- Arguments
- Lists
- Non-null fields
- The query and mutation types
- Scalar types
- Enum types
- Union types
- Input types
- Interfaces

Session 7: MORE GRAPHQL THEORY

- Validation
- Execution
- Introspection
- Best practices

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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