GraphQL Queries

Audience Course GraphQL Queries
The course GraphQL Queries is intended for web and mobile developers who want to use GraphQL to retrieve or update server data.
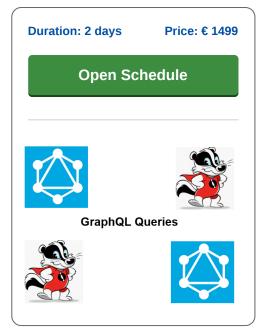
Prerequisites Course GraphQL Queries
Knowledge of and experience with programming and in particular working with REST APIs is beneficial for the understanding.

Realization Training GraphQL Queries
The concepts are discussed on the basis of presentation slides and demos. The theory is interchanged with exercises. The course times are from 9.30 to 16.30.

Certification GraphQL Queries
After successful completion of the course the participants receive an official certificate GraphQL Queries.

Duration: 2 days   **Price: € 1499**

Open Schedule

GraphQL Queries

Content Course GraphQL Queries

GraphQL is a query language developed by Facebook that allows fast searching of various Application Program Interfaces (APIs). GraphQL aims to give clients exactly the data that is requested and nothing more. Additionally GraphQL gives those who maintain APIs the flexibility to add fields or declare fields deprecated without affecting existing queries.

GraphQL Intro
In the course GraphQL Queries participants learn the concepts of the query language GraphQL. Attention is paid to how a GraphQL Server responds to GraphQL queries. The transport neutrality of GraphQL is covered and also how GraphQL works with both SQL and NoSQL databases.

GraphQL Schema
The course proceeds to discuss GraphQL schemas that are the core of a GraphQL server implementation and describe the functionality available to clients. The different schema types and data types for the definition of a GraphQL schema are discussed.

GraphQL Queries
Then attention is paid to GraphQL queries that can be used for both read and write operations. The fields, variables, parameters and directives in GraphQL queries are treated as well as the payload of queries.

GraphQL API
The discussion of the GraphQL API is also part of the course. Use is made of tooling such as the GraphiQL Client and a GraphQL Server. The GraphQL Playground is available to experiment with the GraphQL API.

GraphQL Integration
Finally the course covers how GrapQL can be integrated in various environments. The integration with jQuery, NodeJS and ReactJS is treated. And also it is discussed how Express GraphQL can be used and how the GraphQL API can be implemented with an Apollo server.

Modules Course GraphQL Queries

Module 1 : GraphQL Intro	Module 2 : GraphQL Schema	Module 3 : GraphQL Queries
What is GraphQL?	Schema Definition Language	Query Language
Query Language	Schema Types	Documents and Operations
Execution Engine	Scalar Types	Root Field
Single Endpoint	Int and Float	Query Payload
REST Alternative	String and Boolean	Specifying Fields
Over Fetching	ID Types	Field Parameters
Under Fetching	Object Types	Variables
API Standard	Query Type	Directives
Declarative Fetching	Mutation Type	Aliases
Mobile Apps	Enums	Fragments
Improved Performance	List Type	Mutations
Strong Typing	Required Types	Create, Update, Delete
GraphQL Tooling	Relations	Subscriptions
Module 4 : GraphQL API	**Module 5 : Validation**	**Module 6 : Integrating GraphQL**
GraphiQL Client	Input Types	jQuery Integration
GraphQL Server	Type Markers	Server Setup
GraphQL Playground	Non-nullable Marker	info Argument
GitHub's GraphQL API	Runtime Checks	Scalar Coercion
GraphQL Explorer	Introspection	NodeJS Integration
Basic Queries	Validation Rules	Express GraphQL
Queries with Arguments	Resolvers	Apollo Server
mutation Keyword	Context Attribute	Caching
Pagination	Resolver Result Format	Globally Unique IDs
Default Variables	Asynchronous Resolvers	ReactJS Integration
Nullable Variables	Trivial Resolvers	Create React App
Meta Fields	List Resolvers	React Server App