

GraphQL training (duration: 3 days)

Note: deep understanding of Javascript, node.js is required.

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- Introduction
 - Demand Driven Architecture vs REST
 - GraphQL and Relay
- Making GraphQL Requests
 - Using GraphiQL to send queries
 - Defining Queries
 - Understanding Types
 - Specifying Query Parameters
 - Understanding Fragments
 - Using Query Variables
 - Under the Hood: How a GraphQL Server Responds to Queries
- Relay Concepts
 - Containers, Fragments, Root Container and Routes
 - Internal Architecture & Client-Side Cache
- Getting Started with Relay
 - Relay Container Composition
 - Naming Fragments and Variables
 - Passing Variables to Fragments
 - Setting and Using Relay Variables
 - Conditional Fields with `include` and `skip`
 - Debugging Network Requests
 - Render Callbacks
- Slicing and Paginating
 - Relay Support in GraphQL: Cursors, Slicing and Paginating Data using Connections
 - Relay Support in GraphQL: Edges and PageInfo
 - Navigating/Paginating one-to-many relationships
- Querying via Relay
 - Re-fetching, the Node Interface, and Global 'id's
 - The Node root field
 - Thinking in Graphs
- Data Fetching
 - Data fetching & Ready State
 - Using Ready State Events
 - Handling Server Errors
 - Force Fetching
- Mutations
 - Relay's Mutation Pattern
 - Handling Mutations
 - Optimistic Updates and Fat Queries
 - Mutator Configurations & Updating the Client Store
 - Range Behaviors
 - Mutations for: adding an item, changing an item, deleting an item