Mutations – Modify and Update GraphQL Data

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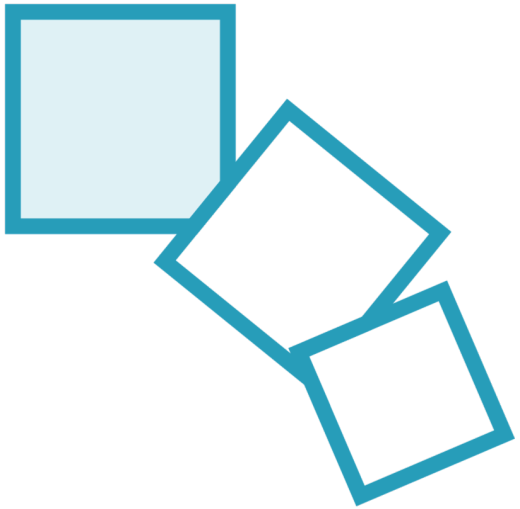
Module Overview

Learn about GraphQL Mutations using Apollo client

- useMutation Hook
- Create new data
- Modify existing data
- Track mutation status
- Update Apollo cache after mutation
- Demo all concepts using Globomantics conference site

Mutations

Mutations



Mutations can create, update and delete data

Mutation fields run in series one after the other

Update Apollo cache after a mutation

useMutation Hook

The *useMutation* is a React hook, which is the API for executing GraphQL mutations in an Apollo application.

```
import { gql, useMutation } from '@apollo/client';

const ADD_TODO = gql`
  mutation AddTodo($type: String!) {
    addTodo(type: $type) {
      id
      type
    }
  }
`;

const [addTodo, { data }] = useMutation(ADD_TODO);
```

useMutation Hook

useMutation returns

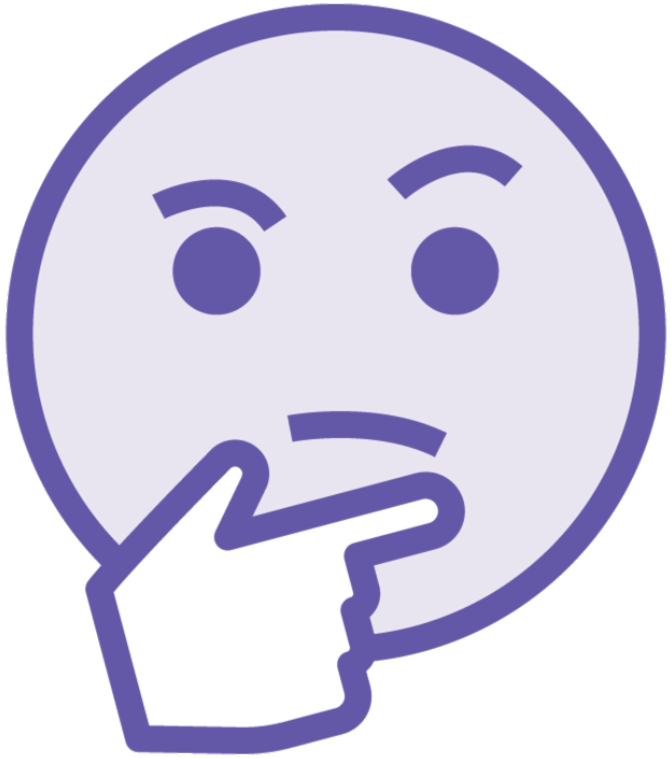
- **A mutate function** that you can call at any time to execute the mutation
- An object with fields that represent the current status of the mutation's execution

Mutation to Create Session

Demo

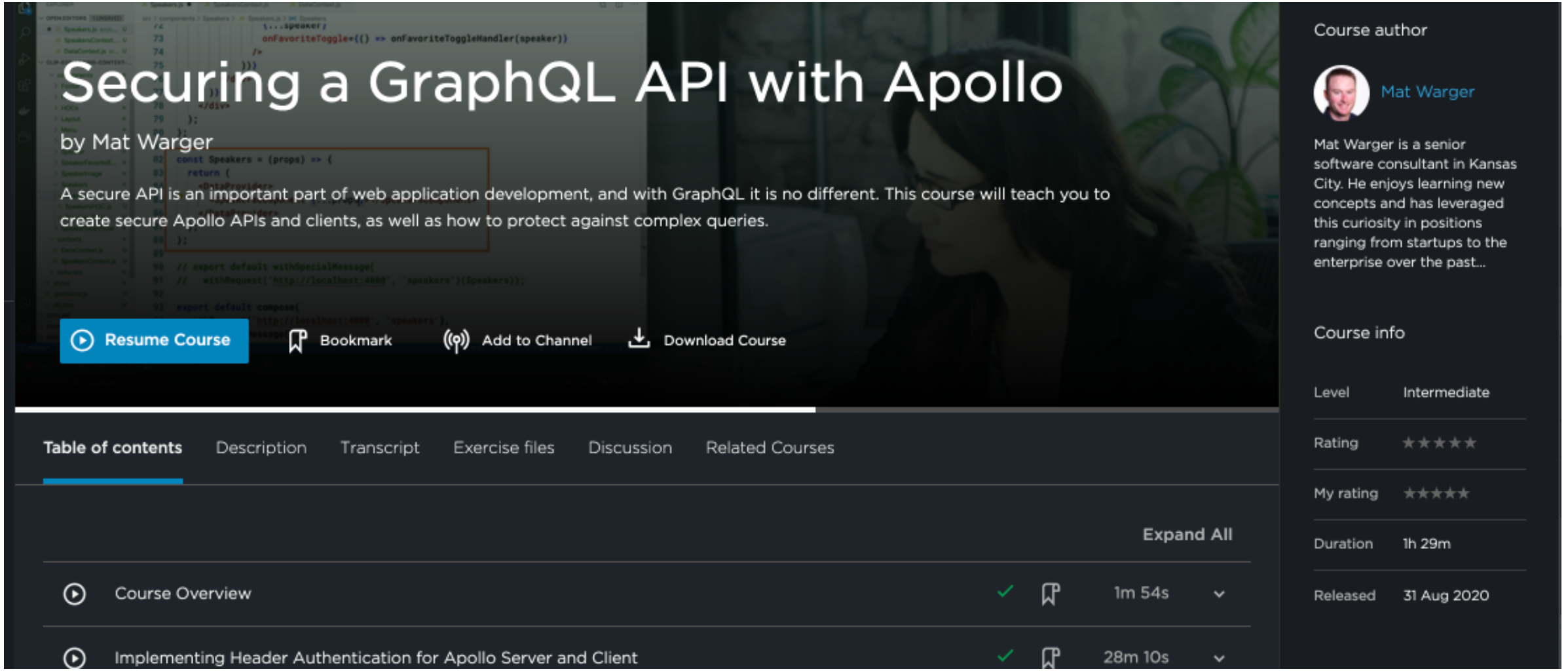
Write Mutation to create a new session

- Create new session for the conference
- Make sure the new session is added in the conference sessions pages



Conference sessions should be approved only by admin!

Login and authentication are required, but not in the scope of this course!


Securing a GraphQL API with Apollo
by Mat Warger
A secure API is an important part of web application development, and with GraphQL it is no different. This course will teach you to create secure Apollo APIs and clients, as well as how to protect against complex queries.
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Implementing Header Authentication for Apollo Server and Client
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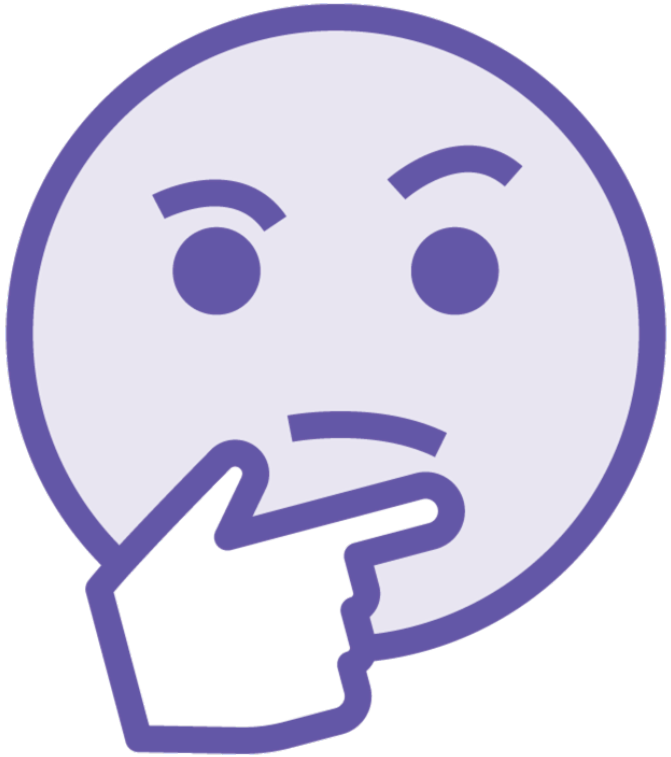
Course author
Mat Warger
Mat Warger is a senior software consultant in Kansas City. He enjoys learning new concepts and has leveraged this curiosity in positions ranging from startups to the enterprise over the past...
Course info
Level
Intermediate
Rating
My rating
Duration
1h 29m
Released
31 Aug 2020

Tracking Mutation Status

Mutation to Update Featured Speaker

Updating Cache after Mutation



Is there a way to see the updated featured speaker, without refreshing the page?

Is there a way to see the updated featured speaker, without refreshing the page?

- Yes!

Updating Cache after Complex Mutations

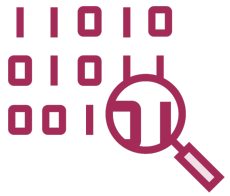
If a mutation modifies multiple entities, or if it creates or deletes entities, the Apollo Client cache
is *not* automatically updated to reflect the result of the mutation.

Course Summary

Apollo React Setup
Globomantics conference app setup

Introspection Queries
Analyze schema in depth

Queries to retrieve data
useQuery hook



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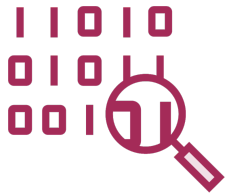

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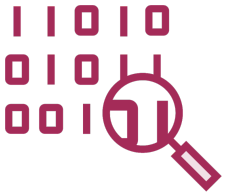

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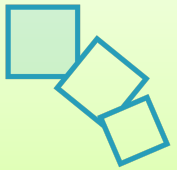
useMutation hook



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