

Queries - Retrieve data from GraphQL



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Module Overview



Learn about GraphQL Queries using Apollo client

- useQuery Hook
- Query with arguments
- Query with variables
- Error handling
- Reuse fields with fragments
- Aliases in GraphQL
- Dynamic queries with directives
- Demo all concepts using Globomantics conference site



Queries



Queries



Provides clients the power to ask for exactly what they need and nothing more

You can combine all the data you need in a single request

Queries are tailor made per client



useQuery Hook

The *useQuery* is a React hook, which is the API for executing queries in an Apollo application.



Demo



Before writing your first query:

- Create a sessions page for the conference
- Hard-code with dummy data and make sure it is running



Query to Retrieve Sessions



Demo



Write your first simple query in Apollo client

- Query for sessions data from the Globomantics API
- Query using the *useQuery* hook
- Display retrieved sessions data on the Globomantics website.



Query with Variables



Variables in Queries



{y, x}

Arguments to fields can be dynamic

GraphQL uses variables to query for dynamic values

Demo



Extend your query to include variables

- Demonstrate including variables for day of the conference



Default Variables



Error Handling



Handling Errors



Errors are common

- Query could be incorrect
- Server isn't responding
- Network issues

Apollo `useQuery` returns result object with `error` and `loading` as properties



Query to Retrieve Speakers



Fragments



Fragments



Fragments are reusable units in GraphQL

Can build sets of fields, and reuse them across multiple queries

Demo



Demonstrate use of fragments within the queries

- Use fragments in the speakers and speakerById queries



Aliases



Arguments

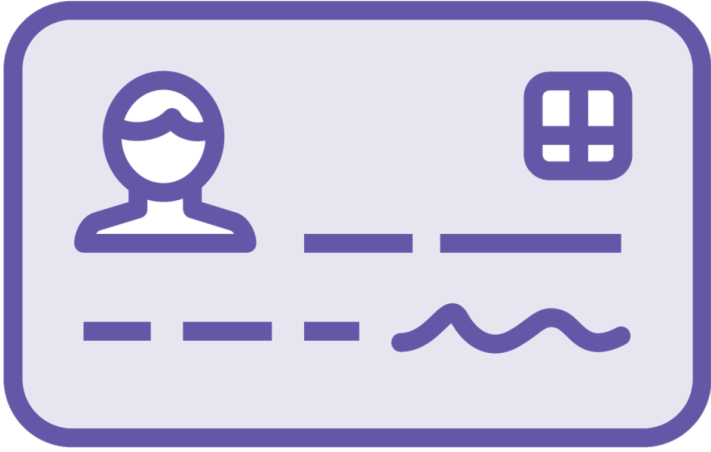


Can pass arguments to fields to filter resulting data

Every field and nested object can get its own set of arguments



Aliases



Can't directly query for same field with different arguments

Aliases let you rename result of a field to anything you want

Gets rid of conflict in query



Demo



Demonstrate use of aliases in GraphQL queries

- Sort sessions based on level of the session, and use aliases within the query



Query Directives



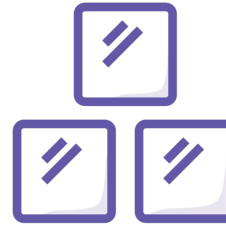
Review



Review Time - Queries



useQuery Hook



Fragments



Arguments and Variables



Aliases



Error handling



Directives



Up Next:
Mutations

