Consuming a GraphQL API with Apollo Client and React

SETUP REACT AND APOLLO DEV ENVIRONMENT

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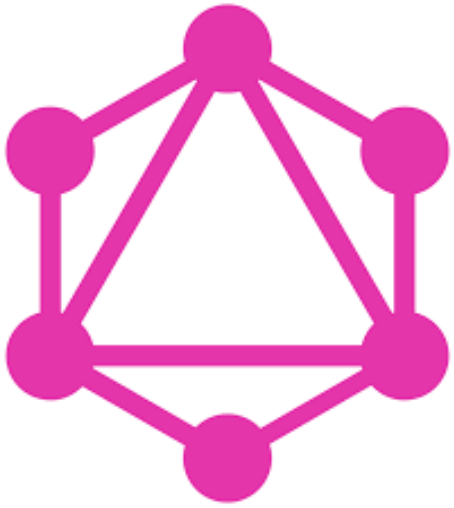
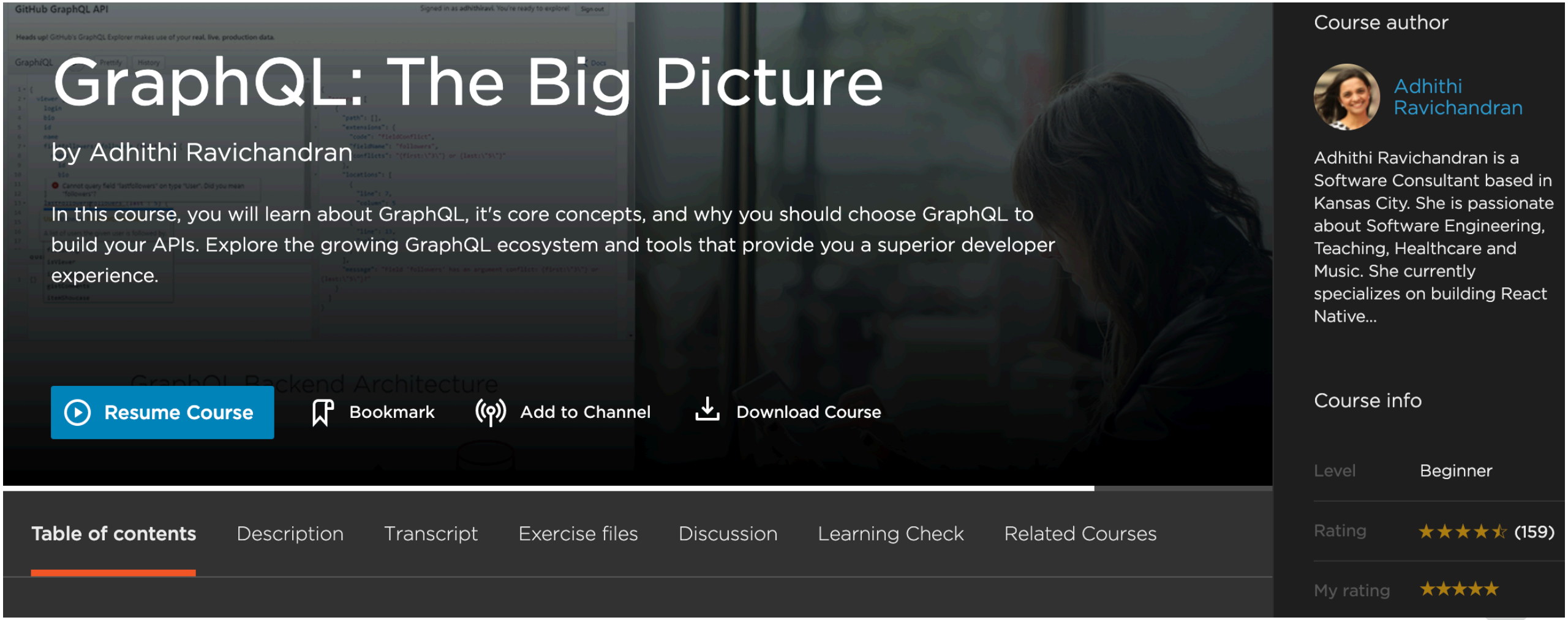
Prerequisites



GraphQL Basics

https://app.pluralsight.com/library/courses/graphql-big-picture/



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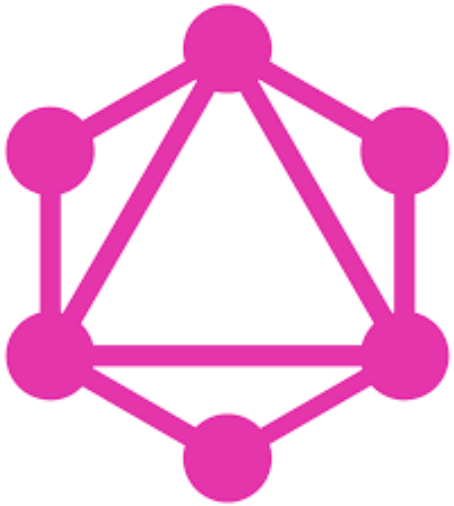

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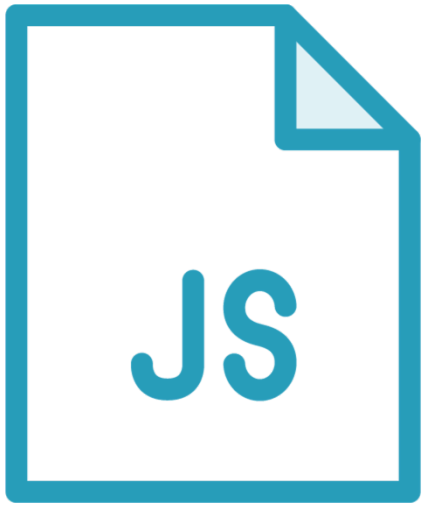


JavaScript

Course Outline

What is Apollo Client?

Setup React and Apollo Client

Queries – Retrieve Data

Mutations – Modify/Update Data

Module Overview

What is Apollo client?

Tour of Globomantics demo app

Installation and setup

- Integrate and configure Apollo client within Globomantics React app
- VS Code extensions
- Connect to server schema
- Explore schema on GraphiQL Playground

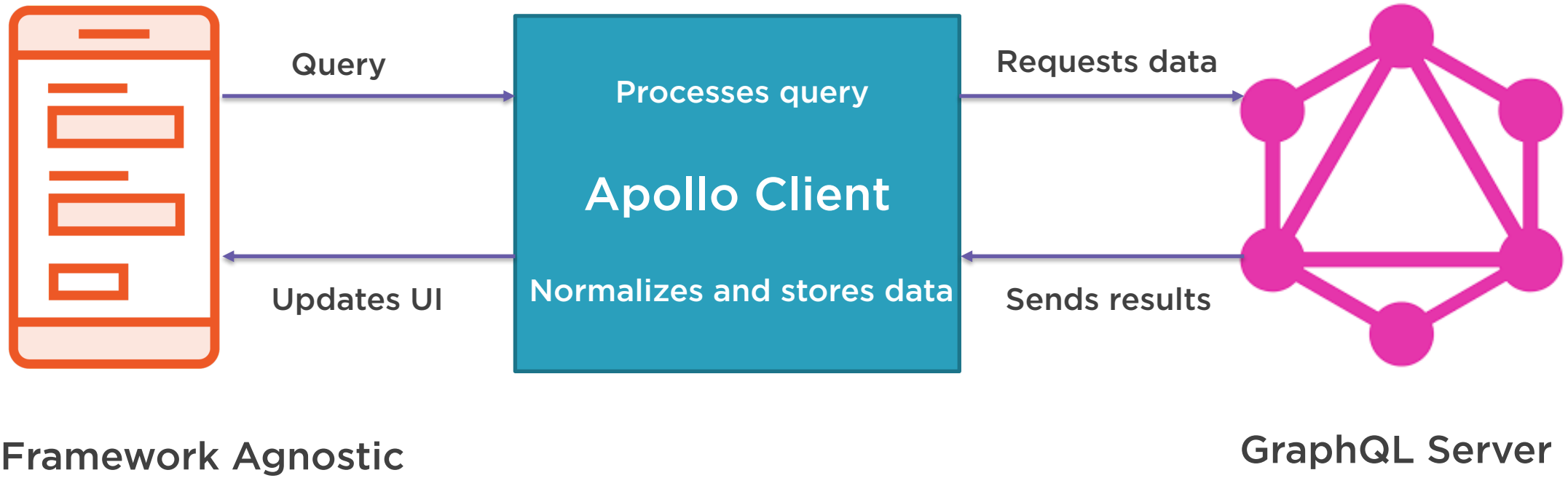
Apollo Client

GraphQL

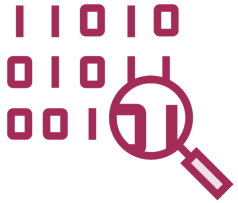
GraphQL is a query language for APIs. It gives clients the power to ask for exactly what they need and nothing more, makes it easier to evolve APIs over time, and enables powerful developer tools.

Apollo Client leverages the power of a GraphQL API to handle data fetching and management for you.

Apollo Client

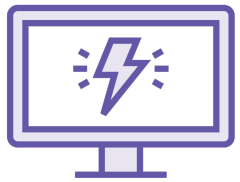


Why Apollo Client?



Declarative data fetching

Compatibility across any build setup and GraphQL API



Great fit for modern UI frameworks (React, Vue, etc.)

Modern tools and developer experience

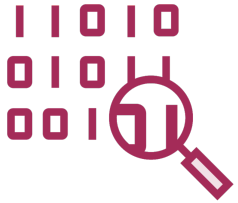
Intelligent caching

Apollo Tools

Apollo Client Devtools, apollo-codegen, eslint-plugin-graphql

App Sync AWS, Apollo Storybook decorator

Why Apollo Client?



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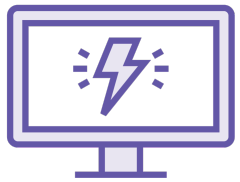


Great fit for modern UI frameworks (React, Vue, etc.)

Modern tools and developer experience

Intelligent caching

Active community

Globomantics App

Globomantics Tech Conference

We are going to work on our frontend React app for Globomantics conference

We have a new GraphQL Server API

Building a GraphQL API with Apollo Server

By Jonathan Mills

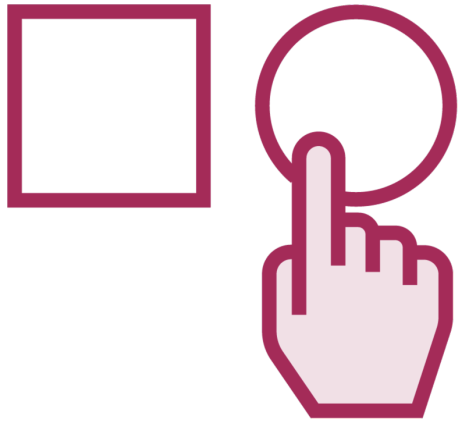
Globomantics Tech Conference

Requirements

- Frontend needs to consume this new GraphQL API for data needs
- APIs for conference sessions, speakers, favorite session and more are available to us

Frontend Features

Display conference sessions



Click on a session for more information

Favorite a session

Display speaker information

Download and Setup React App

Setup and Run Server

Integrate Apollo Client

```
npm install @apollo/client graphql
```

Apollo Client Packages

apollo/client Contains everything you need to setup Apollo client (Version 3.0)

graphql Package provides logic for parsing GraphQL queries.

```
import {ApolloClient,InMemoryCache} from "@apollo/client";
        const client = new ApolloClient({
                uri: ”https://my-example-url.com”, // Your running GraphQL server URL
                cache: new InMemoryCache()
        });
```

Create Apollo Client

Initialize Apollo Client instance and provide it the GraphQL server URL.

```
import { ApolloProvider } from '@apollo/client’;

function App() {

        return (

                <ApolloProvider client={client}>

                <div> <h2>My first Apollo app 🚀</h2> </div>

                </ApolloProvider>

)} render(<App />, document.getElementById('root'));
```

Apollo Provider Component

Connect Apollo Client to React with Apollo Provider component.

It wraps the React app and places the client on the context, allowing access from all components.

VS Code Extension

Download and Connect to Server Schema

Summary

- Apollo Client
- Globomantics Conference App
- Setup React App and GraphQL Server
- Integrate Apollo Client
- VS code extension

We are now ready to start consuming the GraphQL API from our client!