

# Accelebrate Webinar

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## Getting Started with Apollo and GraphQL with React

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# The Accelebrate Difference

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- In-person private training for your group
  - In-person with some remotes
- Synchronous online
  - Private
  - Public
- Online courses (and courses with some online remotes) are easily recordable in most cases

# The Accelebrate Difference

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- Instructors who are experts
  - Real-world experience
- Flexible and eager to customize your training
  - We always request a pre-class call and/or survey
- Rapidly responsive before, during, and after class
- Drama-free logistics - instructor and materials arrive on-time

# Apollo/GraphQL-related Courses

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- Introduction to GraphQL and Apollo Client with React
- Modern Web Service Design with REST, GraphQL, and Beyond
- Introduction to React, GraphQL, and Relay

# Webinar Agenda

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- What is GraphQL?
- What is Apollo?
- Integrating React with Apollo and GraphQL
- Apollo + GraphQL + React Demonstration
- Questions

# What is GraphQL?

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- GraphQL is an API for your data
- GraphQL is like SQL for all your data services
- GraphQL provides a standards-based query language to request the data which is needed
- The data structure is not limited to a "row" or a single "resource", but is a map of data spanning many nodes and collections of nodes

# What is GraphQL?

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- GraphQL is superior to REST services
  - Request only the needed data
  - Combine multiple resources into a single request
  - Mutations are not tied to the HTTP verb system
  - Queries follow a standard not conventions
  - Query syntax is easy to use

# What is GraphQL?

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- GraphQL can be used with REST services
  - Existing data services, including REST services, can be wrapped in GraphQL
  - Wrapping existing data services in GraphQL allows GraphQL to be used today without rewriting existing systems
  - GraphQL can be adopted as needed



# What is GraphQL?

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- GraphQL supports three kinds queries
  - Retrieving Data (think of SQL select)
  - Mutating Data (think of a more flexible SQL insert, update, delete)
  - Introspection queries to retrieve the schema of the GraphQL types

# What is GraphQL?

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- GraphQL supports a sophisticated type system
  - GraphQL is a standard which can be implemented in any programming language such as JavaScript, Java, .NET, Python, etc...
  - Types are not tied to the implementation language's types
  - GraphQL support primitives, enums, object types
  - Also, GraphQL supports interfaces and union types

# What is GraphQL?

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- GraphQL and Web Applications
  - GraphQL returns query results in a JSON format
  - Calls to GraphQL can be made with the XHR object or the newer Fetch API
  - All calls are POST requests
  - Several programming clients for GraphQL exist, two popular ones are Apollo and Relay

# What is Apollo?

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# Integrating React with Apollo and GraphQL

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# Apollo + GraphQL + React **Demonstration**

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- Explore the Apollo APIs for a GraphQL Server and Client
- Configure a React Project to use Apollo
- Write some Server-Side and Client-Side Code which uses Apollo
- Tools:
  - Visual Studio Code + Node.js
  - JSON Server (<https://github.com/typicode/json-server>)

# Getting the Code

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- Code will be pushed to GitHub at the end of the webinar!
- <https://github.com/t4d-accelebrate-webinars/apollo-and-graphql-with-react>
- Contact Eric: [eric@t4d.io](mailto:eric@t4d.io)
- Contact Accelebrate: [info@accelebrate.com](mailto:info@accelebrate.com)

# Questions

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- Feel free to ask questions on Apollo, GraphQL, React and JavaScript related technologies!