GraphQL (E2E flow): Course Details

Day 1

- Recap of JS language
- Introduction to Node.js
 The execution model
 Event Loop concept
 Libuv

 Node Module System
- The Node Programming Model Async programming Promise concept Http server Middlewares
- Express server MVC
 Rest Endpoint
 ORM
- Integration of NoSQL DB with Express server
- Hands-on exercises

Day 2

- Recap of ES6
 Class
 Module
- Introduction to React.js
 React Components stateful & stateless
 Elements
 Lifecycle
 Virtual DOM
 JSX

- Component inter communication:
 Parent and child component Communication
 Uses of function delegation
 Handling events
- Tools:
 Chrome plugin for React
 Webpack, Babel
- Hands-on exercises

Day 3

- Introduction to Immutability
- Pure functions
- Use of state
- Accessing a REST endpoint
- Use of HOC
- Container components
- Use of React Hooks
- Context Object
- React Router
- Handling large amount of data
- Hands-on exercises

Day 4

- Introduction to GraphQL
 Design principles
 Types of Data transport
 RPC
 REST
 System Architecture
 Managing REST end points
 GraphQL clients
 Graph theory recap
- GraphQL concepts
 Schemes & Types
 Interfaces
 Resolvers
 Queries
 Fragments

Directives

• Hands-on exercises

Day 5

- Mutations
- Subscription
- Schema Design
 Expressive schema
 Relay spec
 Nullability
 Abstract Types
- GraphQL Server
 Generating atifacts
 Schema metadata
 Multiple schema
 Rate limitation
- Using Apollo client with React A full application development
- Hands-on exercises