

Sela.

AdvancedReact

Advanced React

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Advanced React

AdvancedReact - Version: 1

 4 days Course

Description:

This training is specifically designed for experienced React developers who want to deepen their knowledge and skills in advanced React concepts and techniques. The course includes hands-on exercises, practical examples, and real-world scenarios to reinforce the learning experience.

Intended audience:

Experienced React developers

Prerequisites:

Basic React knowledge

Objectives:

Expand knowledge and skills in advanced React concepts and techniques

Topics:

Server Calls Architecture Considerations

- Utils Services Layer



- Process Utils Layer
- BL, DALs & Orchestration
- Micro-Service Architecture

State Management with Redux

- State machine
- Actions
- Derivations
- Reactions
- Side effects with Redux-Saga
-

ContextAPI

- Producer
- Consumer
- Context API vs Redux

Reactive Programming

- Reactive Programming Paradigm
- Observer design pattern
- Observables & Observers
- RxJS
- Operators & Usages

Authentication with JWT

- Authentication & Authorization



- JWT Concepts
- Client-Server round trip

Interceptors

- Interceptors Concepts
- Logging Interceptors
- Caching Interceptors
- Authentication Interceptors

Routing & SPA (Single Page Application)

- What is Routing
- The need for routing
- Routing options
- Path Location
- Passing parameters
- Nested routes
- Hooks in Routing
- Route Guard
- Lazy Loading

Improve Performance with Memoization

- Memoization Basics
- React.Memo
- useMemo
- useCallback

React Query



- React Query vs Redux
- Query hooks
- Mutation

Advanced Components Design Patterns

- Decorator Design Pattern
- High Order Components
- Composition
- children

React Unit Testing

- Mocha
- Karma
- Assertions with Chai
- Testing Components
- Testing Services
- E2E testing with TestCafe

Access GraphQL Server (If time permits)

- GraphQL Basics
- Schemas
- Types
- Consuming with Apollo Client

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◉ React Best Practices