COURSE TABLE OF CONTENTS

# SolidJS Fundamentals

OEM: Open Source • Duration: 3 Days (24 hrs)

## COURSE MODULES & TOPICS

### Module 1: Introduction to SolidJS and Reactivity
- Fine-grained reactivity vs virtual DOM
- Compile-time JSX
- SolidJS ecosystem overview

### Module 2: Project Setup and First Component
- Scaffold with Vite and TypeScript
- Project structure tour
- Create the first SolidJS component

### Module 3: Signals and Reactive State
- createSignal usage
- Getters and setters
- Derived values from signals

### Module 4: Working with Signals: Hands-on Labs
- Counter implementation
- Toggle functionality
- Form input signals

### Module 5: Effects and Memos
- createEffect and createMemo
- Batching and untrack
- Live search/filter with derived state

### Module 6: Reactivity Pitfalls and Props Handling
- Why props must not be destructured
- Using splitProps and mergeProps

### Module 7: Control Flow Primitives
- Show, For, Index, Switch/Match
- Dynamic and Portal components

### Module 8: Component Lifecycle and Cleanup
- onMount and onCleanup
- Refs and custom directives
- Modal, dropdown, and tabs components

### Module 9: State Management with Stores and Context
- createStore, produce, reconcile
- Context API for shared state
- Refactor to store and context

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### Module 10: Async Data and Resources

- createResource for async data
- Suspense and ErrorBoundary
- Transitions and loading states

### Module 11: Client-side Routing

- @solidjs/router basics
- Routes, params, nested routes
- Route guards and data loading

### Module 12: Forms, Validation, and Accessibility

- Forms and validation patterns
- createUniqueId usage
- Accessibility basics

### Module 13: Testing SolidJS Applications

- Vitest and Solid Testing Library
- Writing and running tests

### Module 14: Performance and Debugging

- Solid DevTools usage
- Profiling and bundle analysis

### Module 15: SolidStart Overview

- Server-side rendering (SSR)
- File-based routing
- Server functions (demo only)

### Module 16: Capstone Project and Assessment

- Build a mini dashboard
- Implement routing, store, resource, and tests
- Deploy to static host