



Angular: Advanced Angular Programming

Course ID #: 7000-926-ZZ-Z

Hours: 14

Course Content

Course Description:

Take your Angular web apps to the next level with this Advanced Angular Programming course.

Have you been using Angular at work for a while and want to take your skill to the next level? Then this Advanced Angular course is for you. Our customers repeatedly told us about the challenges they are facing in their Angular projects. We have designed this course to directly address them.

This Advanced Angular Training course will take you deeper into the platform. Our Advanced Angular training course gives experienced Angular developers more tools and techniques to improve the functionality and performance of their Angular projects.

Prerequisites:

- A very good understanding of Angular
- Experience using Angular (recommended but not required)

Topics:

Lesson 1: The Angular Component Router

- The Component Router
- View Navigation
- The Angular Router API
- Creating a Router Enabled Application
- Hosting the Routed Components
- Navigation Using Links and Buttons
- Programmatic Navigation
- Passing Route Parameters
- Navigating with Route Parameters
- Obtaining the Route Parameter Values
- Retrieving the Route Parameter Synchronously
- Retrieving a Route Parameter Asynchronously
- Query Parameters
- Supplying Query Parameters
- Retrieving Query Parameters Asynchronously
- Problems with Manual URL entry and Bookmarking

Lesson 2: Advanced HTTP Client

- Request Options
- Returning an HttpResponse Object
- Setting Request Headers
- Creating New Observables
- Creating a Simple Observable
- The Observable Constructor Method
- Observable Operators
- The map and filter Operators
- The flatMap() Operator
- The tap() Operator
- The zip() Combinator
- Caching HTTP Response
- Making Sequential HTTP Calls
- Making Parallel Calls
- Customizing Error Object with catchError()
- Error in Pipeline
- Error Recovery



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Lesson 3: Advanced Routing

- Routing Enabled Feature Module
- Using the Feature Module
- Lazy Loading the Feature Module
- Creating Links for the Feature Module Components
- More About Lazy Loading
- Preloading Modules
- routerLinkActive binding
- Default Route
- Wildcard Route Path
- redirectTo
- Child Routes
- Defining Child Routes for Child Routes
- Links for Child Routes
- Navigation Guards
- Creating Guard Implementations
- Using Guards in a Route

Lesson 5: Debugging

- Overview of Angular Debugging
- Viewing TypeScript Code in Debugger
- Using the debugger Keyword
- Debug Logging
- What is Angular DevTools?
- Using Angular DevTools
- Angular DevTools - Component Structure
- Angular DevTools - Change Detection Execution
- Catching Syntax Errors

Lesson 4: Unit Testing Angular Applications

- Unit Testing Angular Artifacts
- Introduction to Jasmine and Karma
- Jasmine Test Suites
- Jasmine Specs (Unit Tests)
- Expectations (Assertions)
- Matchers
- Examples of Using Matchers
- Using the not Property
- Setup and Teardown in Unit Test Suites
- Example of beforeEach and afterEach Functions
- Testing a Service
- Injecting a Service Instance
- Test a Synchronous Method
- Test an Asynchronous Method
- Using Mock HTTP Client
- Supplying Canned Response
- Testing a Component
- Simulating User Interaction
- Code Coverage testing

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