Mastering Angular Developer Boot Camp

Duration: *5 Day(s)*

Course Overview

Updated for Angular 16 and geared for experienced web developers, our Mastering Angular 16 Boot Camp provides you with hands-on experience working with the latest features and benefits Angular has to offer. It provides you with the practical "real-world" foundational and advanced Angular skills required to solve the usual challenges you might face when developing modern web applications with JavaScript. You'll leave the course equipped to construct robust, scalable, and feature-rich web applications using Angular 16, able to implement seamless user experiences, integrate with various data sources through REST APIs, and employ best practices in unit testing for sustainable, high-quality code.

The course starts off with a solid introduction to the core features of the Angular CLI and TypeScript. You'll then jump right into component-driven development with Angular components, covering data-binding, directives, services, SPA routing, the RxJS library, forms, unit testing, and HTTP/REST. You'll also learn how to add authentication, use the Material library, and make custom directives.

By the end of this course, you'll have developed a streamlined yet feature-rich application. This application will include components to structure your website, directives for dynamic interactivity, and custom pipes for content formatting and filtering. You'll also implement reactive forms for user engagement, SPA routing for seamless navigation, and services to optimize data management and speed. The course emphasizes the importance of unit testing in a Test-Driven Development environment and teaches you how to interact efficiently with web servers using REST APIs. Finally, you'll integrate the Material library to give your web pages a modern, professional aesthetic.

Please note that this course is available for other earlier editions of Angular (Angular 15, etc). Please inquire for details and options.

Review this course online at https://www.alta3.com/courses/TT4168

Objectives

- Understand and apply core and advanced Angular concepts to develop modern web applications.
- Implement seamless Single Page Applications with effective routing and services integration.
- Design and execute unit testing strategies to ensure robust, high-quality code.
- Enhance user experiences through responsive design and Angular Material components.

Who Should Attend

- Experienced Web Developers
- Frontend Engineers
- JavaScript Programmers
- Software Developers transitioning to Angular

Prerequisites

Attendees should have experience with the topics in the following courses, or should have recently attended these as a pre-requisite:

· TT4003 Introduction to HTML5, CSS3 & JavaScript (3 days)

Course Outline

Getting Started with Angular

1. Overview of Angular Architecture
2. TypeScript
3. Bootstrapping with Angular CLI
4. Angular Basics

Session: Working with Angular

5. Components and Events
6. Third Party Libraries
7. Dynamic Views - Directives
8. Pipes

Angular Forms

9. Forms and the Forms API

Single Page Applications and Routes

10. Single Page Applications - Routing
11. Services (Dependency Injection)
12. Modules

Using RESTful Services

13. Angular and REST

Reactive Programming in Angular

14. In depth - Working with RxJS
15. Testing and Angular

Enhancing the Angular App

16. Advanced Routing - Route Guards
17. Angular Material (Design)

Deployment, Errors, and Debugging

18. Angular Deployment
19. Angular Error Handling and Debugging

Bonus Content / Time Permitting

Angular Style Guide