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Angular Expert Training: Business Operations

2 days (14 hours)

Overview

This 2-day training is designed for developers who have completed the Angular — Advanced training or who have solid Angular experience in a professional setting. It covers the framework's most advanced topics: Zoneless Angular, Signal Store, Nx monorepo, full SSR, dynamic SEO, internationalization, custom schematics, and advanced testing strategies.

The core themes of LLM-Driven Development, Clean Code, WCAG 2.2 accessibility, and eco-development reach their highest level of rigor. Each concept is justified by a measurable impact on the application's performance, maintainability, and carbon footprint

Over two days, the carefully balanced density of the concepts covered ensures a significantly higher retention rate than longer training programs. Each concept is immediately applied, allowing participants to be fully operational as soon as they return to their companies.

This training is part of our AI-enhanced Angular curriculum, which will enable you to get your teams fully up and running in the shortest possible time.

Like all our courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Migrate an Angular application to Zoneless mode and measure the impact
- Design and use a Signal Store for advanced state management
- Structure an Nx monorepo with tagged libraries, import constraints, and custom schematics
- Implement full SSR with incremental hydration and dynamic SEO optimization

- Internationalize an Angular application with ngx-translate and ICU expressions
- Apply Mike Cohn's testing pyramid to a full Angular architecture
- Generate and understand AI-assisted unit, integration, E2E, and visual regression tests

Target Audience

- Experienced Angular developers seeking to master advanced patterns, large-scale architecture, and performance and quality techniques at an expert level.

Prerequisites

- Have completed the Angular — Advanced training or possess solid experience with Angular, including mastery of Signals, interceptors, advanced routing, resolvers, OnPush, and @defer.
- [Test My Knowledge](#)

Technical Prerequisites

- At least 8 GB of RAM (16 GB recommended) on Windows 10, macOS, or Linux (such as Ubuntu)
- An internet connection without a proxy
- Node.js installed
- An IDE installed, such as Visual Studio Code

Curriculum for our Angular Training: Expertise with AI

[Day 1 - Morning]

Zoneless & State Management

- Review and reinforcement of LLM-Driven Development, Clean Code, accessibility, and eco-development principles
- Zoneless Angular — provideZonelessChangeDetection(), migration from Zone.js, impact tests, eco-development argument
- afterNextRender / afterEveryRender — third-party library integration, write/read phases, difference from ngAfterViewInit in SSR
- Signal Store — signalStore(), withState(), withComputed(), withMethods(), withHooks()

[Day 1 - Afternoon] AI

Generation & Multi-Projects

- Nx monorepo — workspace, tagged libraries (feature, data-access, ui, util), affected commands, distributed cache, import constraints
- InjectionToken — providing constants in Nx, decoupling apps/libraries
- AI-assisted Schematic — generate a complete feature in Nx libraries
- Pluralization — ICU expressions: plural, select
- Runtime internationalization — ngx-translate, JSON files, language switching, Signal Store integration

[Day 2 - Morning]

SSR, Hydration & Web Bundle

- Full SSR — provideServerRendering(), TransferState, isPlatformBrowser
- Incremental hydration, SSG with withPrerender(), custom preloading strategies
- Router expert — RouteReuseStrategy, secondary routes, custom TitleStrategy, Meta service
- Dynamic SEO — dynamic titles and meta descriptions, Open Graph, dynamic routes with resolver + SSR
- CDK Overlay — PositionStrategy, ScrollStrategy, PortalOutlet
- Dashboard with charts — Signal Store + @defer + afterNextRender + Zoneless + SSR
- Web Workers — ng generate web-worker, offloading heavy computations from the main thread

[Day 2 - Afternoon]

Augmented QA & Visual Testing

- Bundle analysis — esbuild-bundle-analyzer, tree-shaking, angular.json budgets
- Mike Cohn's Testing Pyramid — Layer-by-layer strategy Angular: Signal Store, guards, resolvers, interceptors, components
- AI-assisted unit testing with Vitest
- AI-assisted integration testing with TestBed and provideZonelessChangeDetection()
- AI-assisted E2E testing with Playwright
- Playwright visual regression testing — dashboard charts

Target Companies

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technologies or to acquire specific business knowledge or modern methodologies.

Placement upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to assess their estimated proficiency in various types of technologies, as well as their expectations and personal goals regarding the upcoming training, within the limits imposed by the selected format. This questionnaire also enables us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could

problematic for the monitoring and smooth running of the training session.

Teaching Methods

Practical Training: 60% Practical, 40% Theoretical. Training materials will be distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training program.