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Angular Training: Fundamentals with AI

2 days (14 hours)

Overview

This intensive 2-day training course has been designed to meet the demands of modern web development. It natively integrates LLM-Driven Development to accelerate team productivity, the principles of Clean Code according to Robert C. Martin to ensure application maintainability, WCAG 2.2 accessibility standards, and eco-development practices to support CSR policies.

Thanks to a resolutely practice-oriented teaching approach—70% hands-on work on a real-world project using an online API, 30% theory—and the carefully balanced depth of the concepts covered, this format promotes a significantly higher retention rate than longer training courses.

Each concept is immediately applied, enabling participants to be fully operational as soon as they return to their companies.

This course is part of our AI-enhanced Angular curriculum, which will enable you to get your teams fully up and running in no time.

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

Objectives

- Master the fundamental concepts of Angular and its latest developments
- Develop a modern Angular web application with TypeScript
- Create reusable, modular, and maintainable components
- Develop testable applications by applying Clean Code best practices
- Implement eco-development best practices in your Angular projects
- Integrate digital accessibility from the development phase

- Automate unit tests and accessibility checks with AI

Target audience

- Web developers looking to learn the fundamentals of Angular and best practices in modern front-end development.

Prerequisites

- Strong knowledge of web technologies, front-end development tools, and JavaScript.
- [Test My Knowledge](#)

Technical requirements

- 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

Our Angular Training Program: Fundamentals with AI

[Day 1 - Morning]

Modern Architecture & Foundations

- Configuring LLM Driven Development rules
- Setup: Node, Angular CLI 20, ng new --standalone --routing, project structure, Angular DevTools
- Environments: environment.development.ts / environment.production.ts
- Feature-based architecture: shared/, features/
- Dumb vs. smart components, SRP

[Day 1 - Afternoon]

Core Architecture & Signals

- Standalone components: @Component, ViewEncapsulation, CSS/JS encapsulation
- New template syntax: @if / @else, @for with track, @switch
- Component communication: signal-based input() / output(), effect()
- @Input() and @Output(), comparison with signals.

- Component lifecycle: ngOnInit, ngOnChanges, ngOnDestroy
- Services: @Injectable, inject()
- Signals: signal(), computed()
- Routing: provideRouter(), loadComponent(), routerLink, RouterOutlet
- Lazy loading

[Day 2 - Morning]

Data Flows & Industrialization

- Compodoc — documentation generation
- Functional guards: canActivate
- HttpClient: provideHttpClient()
- Cold Observables
- Typed requests — CRUD services
- Simple RxJS filters
- Server and API error handling

[Day 2 - Afternoon] Forms &

Custom Logic

- ReactiveFormsModule
- Signal forms: native validators, custom validators
- Pipes: async, native pipes
- Custom Pipe
- Attribute directives
- Structure directives
- Custom directive
- AI-assisted unit tests with Vitest

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 professional knowledge or modern methods.

Entry-Level Assessment

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

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical instruction from the instructor—supported by examples and discussion 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.