Angular Advanced & Architecture with Nx Workshop

Structure a growing Angular application so that ten developers can work on it without stepping on each other's toes.

2 DAYS | ADVANCED | REMOTE OR IN-HOUSE | GERMAN & ENGLISH | UP TO 12 PARTICIPANTS (MORE ON REQUEST)

WHO IT'S FOR

- Experienced Angular developers and tech leads
- Teams whose application has grown faster than its structure
- Teams planning a monorepo or a migration to Nx

AFTERWARDS YOUR TEAM CAN

- Cut an application into libraries with clear boundaries and dependency rules
- Decide where state belongs and implement it with NgRx or the Signal Store
- Build typed, validated forms for complex business cases
- Set up an Nx workspace with affected builds, linting and tests

PREREQUISITES

- At least one year of practical Angular experience
- Familiarity with RxJS basics and the Angular CLI
- Ideally: access to your own code base to discuss real examples

Most Angular applications don't fail because of Angular – they fail because of structure: everything in one folder, state spread over components, forms that nobody dares to touch. This workshop gives your team the patterns to fix that: component APIs with signals, a standalone architecture, advanced forms, testing, state management with NgRx and the Signal Store, libraries and Nx workspaces.

The last block is reserved for your project: bring your questions and your code, and we work through them together. Teams usually leave with a concrete plan for the next refactoring steps.

AGENDA

The order and the depth of each block are adapted to your team – topics you already master are skipped, your questions get the time instead.

01 Component APIs with Signals

- Signal inputs, outputs and models for clear component APIs.
- Smart and presentational components – and where signals and RxJS each fit.

02 Standalone Architecture and Lazy Loading

- Organize features without NgModules: providers, routes and shared dependencies.
- Lazy loading with loadComponent and loadChildren, and @defer for heavy parts of a page.

03 Advanced Forms with Cross-Field Validation

- Typed reactive forms for complex business cases.
- Custom, cross-field and asynchronous validators.

04 Testing

- Unit and component tests with Vitest.
- End-to-end tests with Playwright.

- Reusable form components with ControlValueAccessor.

05 State Management with NgRx and the Signal Store

- Where state belongs: component, service or store.
- NgRx Store with actions, reducers, effects and selectors.
- The NgRx Signal Store and resource() for signal-based state and async data.

06 Working with Libraries and Nx

- Cut the application into feature, domain, UI and util libraries.
- Publish reusable libraries in the Angular Package Format (APF) where needed.

07 Nx Workspaces

- Module boundaries and dependency rules, enforced by lint.
- Affected builds, tests and caching in CI.
- Generators for consistent new features.

08 Questions from Your Project

- Your code, your questions: we work through real examples together.
- A concrete plan for the next refactoring steps.

YOUR TRAINER



Fabian Gosebrink

MICROSOFT MVP, GOOGLE DEVELOPER EXPERT

Builds Angular applications with teams every week and has given 120+ conference talks on Angular, state management and architecture.

REQUEST A TRAINING

- For your team only – Remote or in-house
- up to 12 participants (more on request)
- from CHF 2,400 per day for the whole team
- On site: plus travel at cost
- Fixed quote within one business day
- The first call is free and without obligation
- German or English
- Based near Zurich – on site in CH, DE, AT; remote everywhere

Request this training: offering.solutions/angular-advanced-enterprise-architecture/ · mail@offering.solutions