>> Angular

Basic Single Page Application Development

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Angular ist ein TypeScript-basiertes Front-End-Webapplikationsframework. Es wird von einer Community aus Einzelpersonen und Unternehmen, angeführt durch Google, entwickelt und als Open-Source-Software publiziert.

Ihr Nutzen

In diesem Seminar lernen Sie Angular mit Node.js / .NET Core einzusetzen und damit "Single Page Applications" (SPA's) zu erstellen. Sie werden dabei alle Bereiche von Angular inklusive Responsive UI Design, Security und Testing behandeln.

Voraussetzungen

C# Programming~7644

Kenntnisse von HTML, CSS und Java Script

Preis pro Teilnehmer

EUR 2250,- exklusive der gesetzlichen MwSt.

Seminardauer

4 Tag(e)/Day(s)

Hinweise

Version: 2019

Seminarinhalte

Tag 1
* Das Angular Ecosystem
- TypeScript in the Angular Ecosystem
- Databinding & Completing Basic Tasks
- Implementing Nested Components
- Routing & Dependency Injection
- Designing a responsive User Interface
- Forms Design & Validation
- Reactive Programming using Signals & RxJS
- Managing client State & Sharing Events
- Testing Angular Applications
- Securing & Publishing Angular

* Einführung in Angular
- Angular Introduction & Technology Stack
- Angular CLI Essentials
- Debugging Angular
- Bootstrapping & Configuration
- Maintaining & Updating projects

* TypeScript im Angular Ecosystem
- TypeScript Overview, ECMA Script Standards
- Types, Variables, Literal Types, Functions
- Objects, Classes, Interfaces
- Immutability, Cloning & Object Composition
- Async Operations, Observables & Signals
- Calculated Signals & Effects

Tag 2
* Databinding & Completing Basic Tasks
- Components & Dependency Injection
- Services & Data Request
- Expressions, Templates & Directives
- String Interpolation, Attribute- & Event-Binding, Two-Way Binding
- Built-in Control Flow & Deferrable Views
- Data binding Observables & Signals
- Built in and Custom Pipes & Directives

* Implementing Nested Components
- Benefits of Nested Components
- Container vs Presentational Components
- Data binding & Events using @Input & @Output
- Nesting using Signal inputs & model outputs
- View Child, View Children & Signal Queries

Tag 3
* Routing & Dependency Injection
- Register Providers & Dependency Injection
- Routing & Navigation Basics
- Working with Parameterized Routes
- Component Input Bindings
- Modules vs Standalone Components
- Modules Use Cases & Lazy Loading
- Route Guards & Data Preloading

* Designing a responsive User Interface
- Implementing a CSS Reset
- Global & Component Styles
- Responsive Web Design using Media Queries
- Layout using Flexbox, CSS Grid and Areas
- Angular Material Overview
- Common controls: Tables, Dialogs & Form Controls ...
- Angular CDK & 3rd Party Components (Virtual Lists, Drag & Drop, Markdown, ...)

* Reactive Forms Design & Validation
- Forms Introduction
- Template Driven Forms vs Reactive (Model Based) Forms
- FormBuilder & Typed Forms (Nullability, Nested Objects, Arrays)
- FormControl, FormGroups & FormArrays
- Form Validation Basics (Synchronous / Asynchronous)
- Custom- & Code-Based Validators
- Signals & FormControls

Tag 4
* Reactive Programming using Signals & RxJS
- What is Reactive Programming / Benefits
- Imperative vs Reactive Programming Styles
- Observable, Observer, Async pipe & Unsubscribing
- Common RxJS Operators
- Creating Observables & Casting to Observables
- Capturing Mouse & DOM Events as Observables
- Observable & Signal Interoperability

- What is State Management

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