



AngularDev - Version: 4
11 September 2021

Angular



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 4 days Course

Description:

The Angular team made the wise but difficult choice of starting over with Angular 2, rather than just patching the mature but increasingly fragile framework. From now on, it's Angular -- not Angular 1, 2, or 4. The new version is based on a modern approach, which prefers a more composable component model, reactivity, predictable data flows, type safety, embracing the wider ecosystem, and other current conventions and best practices. These changes represent a significant paradigm shift that is taking over the whole ecosystem. This Course introduces this new paradigm that underlies Angular, helps you set up a productive development environment, and teaches you how to build a well-structured app with Angular modules, components, services, pipes, forms and routing.

Intended audience:

front end developers with good knowledge in o.o javascript

Prerequisites:

Objectives:

- Develop modern, complex, and scalable web applications with Angular
- Describe the architecture behind an Angular application and how to use it
- Gain deep understanding of the Angular fundamentals to quickly establish yourself as a frontend developer
- Create single-page applications with one of the most modern JavaScript frameworks

Topics:

Typescript & ES2015

- EcmaScript 2015
- Typescript

Angular Introduction

- Getting Started
- Development Environment
- Angular Architecture & Concepts

Component & Modules

- Components Overview
- Angular Modules
- Basic Components
- Application Bootstrapping
- Component LifeCycle

Data Binding

- One-Way Data Binding
- Interpolation
- Property Binding
- Event Binding
- Special Bindings
- Two-way Data binding
- ngModel

Directives

- Directives Vs. Components
- Attribute Directives
- Structural Directives

Modules & Component Composition

- Component Input Properties
- Event Emitters
- Component Output Properties
- Custom Events
- Modules Composition
- Root vs. Feature Modules

Services & Dependency Injection

- Dependency Injection in Angular
- The injectable Decorator
- Services & Providers
- Understanding Hierarchical Dependency Injection

HTTP

- RxJS & Observables Overview
- Http Client
- Making Http Requests
- Handling Http Responses
- Error Handling
- Interceptors

Angular Routing

- Routing Configuration
- Router Directive
- Child Routes
- Route Guards

Pipes

- Common Pipes
- Custom Pipes
- Pure & Impure Pipes
- The Async pipe

Angular Forms

- The Forms Module
- Template Drive Forms
- State and Validity
- Visual Feedback
- Model Driven Forms (Reactive Forms)

Components & Directives In Depth

- Parent to Child Interaction
- Child to Parent interaction
- Content Projection
- Custom Directives