Angular Web Development

Duration: 3 days Price: € 1999

Open Schedule

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Audience Angular Web Development Course

Web Developers who want to use the latest version of the Angular JavaScript Framework, at the time of writing, Angular 9, when developing modern single page Web Applications.

Prerequisites Course Angular Web Development

JavaScript programming experience and a good knowledge of JavaScript is required to participate in this course.

Realization Training Angular Web Development

The theory is treated on the basis of presentation slides. The concepts are illustrated with demos. The theory is interspersed with exercises. The course times are from 9.30 to 16.30.

Certification Angular Web Development

The participants receive an official certificate Angular Web Development after successful completion of the course.

Content Course Angular Web Development

In the course Angular Web Development participants learn to use the Angular JavaScript Framework to develop modern single page Web Applications. The course covers the latest Angular version, version 9 at the time of writing.

Angular Framework

The Angular Framework is a major upgrade of the AngularJS 1.x JavaScript Library, offers better performance and uses TypeScript and the new features of the ECMA 6 JavaScript standard.

Angular Architecture

In the course participants learn the architecture of an Angular application in which a collection of components cooperate together in modules.

Angular Components

Attention is paid to the components such as templates, annotations, views and services. Dependency injection is also discussed. The syntax of TypeScript and the new JavaScript standard ECMA 6 is covered.

Angular CLI

The significance of Angular CLI and the generation of artifacts as components and services and the function of the dependency injector tree to keep applications extendable and maintainable are also discussed.

Routing

Attention is also paid to the new component router for basic routing, child routes and router lifecycle hooks. Forms are also on the program where template-driven forms, model-driven forms and validators are discussed.

Observables

Observables open the door to reactive functional programming and their function is demonstrated when making HTTP requests with the new HTTP layer. Finally, the participants learn to build new reusable user interface components.

Modules Course Angular Web Development

Module 1 : Intro Angular	Module 2 : TypeScript	Module 3 : ECMA Script 6
What is Angular?	What is TypeScript?	Block Bindings
Newest Features Angular	Weak typing in JavaScript	Let Variables
Development Environment	Strong Typing in TypeScript	Arrow Functions
Bootstrapping an app	Using Built-in Types	Rest Parameters
Displaying data	Inferred typing	Spread Operator
Using Directives	Explicit casting	Strings
Templates	Classes	Functions
Annotations	Interfaces	Closures
Views	Decorators	Iterators
Controllers	Generics	Promises
Modules	Sync and await	Reflection
Module 4 : Components	**Module 5 : Dependency Injection**	**Module 6 : Routing**
Component Architecture	What is dependency injection?	Angular Routes
Inputs and Outputs	Writing Imports	Routing Configuration
Data flow	Creating services	Route comparison
Smart vs. Dumb components	DI for component communication	Routing Parameters
Communicating via state service	Configuring providers	Configuring routes
Custom event bus	Defining provider recipes	Linking to routes
Reusable UI Components	The injector tree	Guards
Querying view children	Injecting using tokens	Child routes
Querying content children	Opaque tokens	Sibling routes
Host Bindings and Listener	Multi Providers	Lazy loading routes
Module 7 : Forms	**Module 8 : HTTP and Observables**	**Module 9 : Angular CLI**
Template-driven forms	Performing HTTP requests	What is Angular CLI?
Model-driven forms	Configuring request headers	Modern tooling
Tracking Changes by CSS	HttpClientModule.	Generate with CLI
Control	RxJS 6 Observables	Directives and services
ControlGroup	Observer Design Pattern	Compile, run with CLI
FormBuilder	Observables versus Promises	Deploy your applications.
Validation	Creating Observables	Generating components
Validation Styling	Creating Subjects	Generating services
Error messages	Emitting events	Transpiling TypeScript
Custom validators	Subscribing to observables	Building and serving apps
Asynchronous validators	Observable Operators	Debugging

SpiralTrain BV
Standerdmolen 10, 2e verdieping
3995 AA Houten

info@spiraltrain.nl
www.spiraltrain.nl
Tel.: +31 (0) 30 – 737 0661

Locations
Houten, Amsterdam, Rotterdam, Eindhoven, Zwolle, Online