



# Angular 6 Avanzato

Durata 3 giorni  
Trainer - Costantino Cavallo

eNetworks  
Educational



## Informazioni generali

### Descrizione

Questo corso inizia da zero, non è necessario conoscere le versioni di Angular precedenti! (Angular 6 è semplicemente l'ultima versione di Angular 5). Partendo dal Setup per arrivare alla fase di Deployment, questo corso (unito al corso base) copre tutto! Scopri tutto su componenti, direttive, servizi, moduli, accesso Http, autenticazione, ottimizzazione di un'applicazione angular con moduli e compilazione offline ed alla fine imparerai a distribuire un'applicazione.

### Obiettivi

L'obiettivo del corso è di dare una solida conoscenza del framework Angular integrando best practices e design pattern utilizzati nello sviluppo di moderne applicazioni client.

### Prerequisiti

E' necessaria una solida conoscenza di Javascript ed una conosce base di Typescript.

## Day 1

### Components & Databinding Deep Dive

- Splitting Apps into Components
- Property & Event Binding Overview
- Binding to Custom Properties
- Assigning an Alias to Custom Properties
- Binding to Custom Events
- Assigning an Alias to Custom Events
- Custom Property and Event Binding Summary
- Understanding View Encapsulation
- Using Local References in Templates
- Getting Access to the Template & DOM with @ViewChild
- Projecting Content into Components with ng-content
- Understanding the Component Lifecycle
- Seeing Lifecycle Hooks in Action
- Lifecycle Hooks and Template Access

### Directives Deep Dive

- ngFor and ngIf Recap
- ngClass and ngStyle Recap
- Creating a Basic Attribute Directive
- Using the Renderer to build a Better Attribute Directive
- More about the Renderer
- Using HostListener to Listen to Host Events
- Using HostBinding to Bind to Host Properties
- Binding to Directive Properties
- What Happens behind the Scenes on Structural Directives
- Building a Structural Directive
- Understanding ngSwitch

### Using Services & Dependency Injection

- Why would you Need Services?
- Creating a Logging Service
- Injecting the Logging Service into Components
- Creating a Data Service
- Understanding the Hierarchical Injector
- How many Instances of Service Should It Be?
- Injecting Services into Services
- Using Services for Cross-Component Communication

## Day 2

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### Changing Pages with Routing

- Setting up and Loading Routes
- Navigating with Router Links
- Understanding Navigation Paths
- Styling Active Router Links
- Navigating Programmatically
- Using Relative Paths in Programmatic Navigation
- Passing Parameters to Routes
- Fetching Route Parameters
- Fetching Route Parameters Reactively
- An Important Note about Route Observables
- Passing Query Parameters and Fragments
- Retrieving Query Parameters and Fragments
- Setting up Child (Nested) Routes
- Using Query Parameters - Practice
- Configuring the Handling of Query Parameters
- Redirecting and Wildcard Routes
- Important: Redirection Path Matching
- Outsourcing the Route Configuration
- An Introduction to Guards
- Protecting Routes with canActivate
- Protecting Child (Nested) Routes with canActivateChild
- Using a Fake Auth Service
- Controlling Navigation with canDeactivate

### Understanding Observables

- Module Introduction
- Analyzing a Built-in Angular Observable
- Building & Using a First Simple Observable
- Building & Using a Custom Observable from Scratch
- Unsubscribe!
- Where to learn more
- Using Subjects to Pass AND Listen to Data
- Understanding Observable Operators

## Day 3

### Handling Forms in Angular Apps

Module Introduction  
Why do we Need Angular's Help?  
Template-Driven (TD) vs Reactive Approach  
An Example Form  
TD: Creating the Form and Registering the Controls  
TD: Submitting and Using the Form  
TD: Understanding Form State  
TD: Accessing the Form with @ViewChild  
TD: Adding Validation to check User Input  
Built-in Validators & Using HTML5 Validation  
TD: Using the Form State  
TD: Outputting Validation Error Messages  
TD: Set Default Values with ngModel Property Binding  
TD: Using ngModel with Two-Way-Binding  
TD: Grouping Form Controls  
TD: Handling Radio Buttons  
TD: Setting and Patching Form Values  
TD: Using Form Data  
TD: Resetting Forms

### Making Http Requests

Introduction & How Http Requests Work in SPAs  
Example App & Backend Setup  
Sending Requests (Example: POST Request)  
Adjusting Request Headers  
Sending GET Requests  
Sending a PUT Request  
Transform Responses Easily with Observable Operators  
(map())  
Using the Returned Data  
Catching Http Errors