

Angular 4 Training Course Content

CHAPTER 1: INTRODUCTION TO ANGULAR 4

- What is Angular 4?
- Central Features of the Angular Framework
- Why Angular?
- Scope and Goal of Angular
- Angular 4 vs Angular 2 vs. AngularJS
- Angular 4 Environment Setup
- Adding Angular 4 and Dependencies to Your App
- Building Blocks of an Angular 4 Application
- A Basic Angular 4 Application

CHAPTER 2: INTRODUCTION TO TYPESCRIPT AND ES6

- Programming Languages for Use with Angular
- TypeScript Syntax
- The Type System – Defining Variables
- The Type System – Defining Arrays
- The Type System – Classes & Objects
- Class Constructors
- Class Constructors – Alternate Form
- Interfaces
- Parameter and Return Value Types
- Working with Modules
- TypeScript Transpilation
- Arrow Functions
- Template Strings
- Template Strings – Variables and Expressions
- Template Strings – Multiline
- Generics – Class
- Generics – Methods
- Generics – Restricting Types

CHAPTER 3: COMPONENTS IN ANGULAR 4

- What is a Component?

- An Example Component
- Component Starter
- Developing a Simple Login Component
- Login Component: Add HTML
- The HTML Component Template
- Login Component
- Component Decorator Properties
- Component Lifecycle Hooks
- Using a Lifecycle Hook: OnInit

CHAPTER 4 : DATA AND EVENT BINDING

- Binding Syntax
- One-Way Output Binding
- Binding Displayed Output Values
- Two-Way Binding of Input Fields
- Input Binding Examples
- Binding Events
- Binding Events Examples
- Setting Element Properties
- Setting Properties: Examples

CHAPTER 5: ATTRIBUTE DIRECTIVES AND PROPERTY BINDINGS

- What are Directives
- Directive Types
- Apply Styles by Changing Classes
- Changing Classes – Example
- Applying Styles Directly
- Applying Styles Directly – Example
- Obsolete Directives and Property Binding
- Controlling Element Visibility
- Setting Image Source Dynamically
- Setting Hyperlink Source Dynamically

CHAPTER 6: STRUCTURAL DIRECTIVES

- Structural Directives
- Adding and Removing Elements Dynamically
- Looping Using ngFor
- ngFor – Basic Syntax
- ngFor – Full Template Syntax
- Creating Tables with ngFor
- ngFor Local Variables

- ngFor Changes in the backing data source
- Swapping Elements with ngSwitch
- ngSwitch – Basic Syntax
- ngSwitch – Full Template Syntax

CHAPTER 7: TEMPLATE DRIVEN FORMS

- Template Driven Forms
- Note on Deprecated Forms APIs
- A Basic Angular Form
- Binding Input Fields
- Accessing the Form Object
- Binding the Form Submit Event
- The Submit Function
- Basic HTML5 Validation – “required” Attribute
- HTML5 vs. Angular Validation
- Angular Validation
- Displaying Form Validation State
- Displaying Field Validation State
- Displaying Validation State Using Classes
- Disabling Submit when Form is Invalid
- Submitting the Form
- Binding to Object Variables
- Additional Input Types
- Checkboxes
- Select(drop down) Fields
- Rendering Options for Select (drop down)
- Date fields
- Radio Buttons

CHAPTER 8: SERVICE AND DEPENDENCY INJECTION

- What is a Service?
- Creating a Basic Service
- What is Dependency Injection?
- What Dependency Injection Looks Like
- Injecting Services
- Using a Service in a Component: Dedicated Instance
- Using onInit to Initialize Component Data
- Using a Shared Service Instance
- Dependency Injection

CHAPTER 9: HTTP CLIENT

- The Angular HTTP Client
- Using The HTTP Client – Overview
- Setting up the Root Component
- Service Using Http Client
- Importing Individual HTTP Providers into Services
- Service Imports
- The Observable object type
- What does an Observable Object do?
- Making a Basic HTTP GET Call
- Using the Service in a Component
- The Component
- Component Code Review
- Importing Observable Methods
- Enhancing the Service with `.map()` and `.catch()`
- Using `.map()`
- Using `.catch()`
- Using `toPromise()`
- GET Request
- GET Request with Options
- POST Request
- Reading HTTP Response Headers

CHAPTER 10: PIPES AND DATA FORMATTING

- What are Pipes?
- More on Pipes
- Formatting Changes in Angular 4
- Using a Built-in Pipe
- Built-In Pipes
- Using Pipes in HTML
- Chaining Pipes
- Using Pipes in JavaScript
- Some Pipe Examples
- Decimal Pipe
- CurrencyPipe
- Custom Pipes
- Custom Pipe Example
- Using Custom Pipes
- A Filter Pipe
- A Sort Pipe
- Pipe Category: Pure and Impure
- Pure Pipe Example

- Impure Pipe Example

CHAPTER 11: INTRODUCTION TO SINGLE PAGE APPLICATION

- What is a Single Page Application (SPA)
- SPA Workflow
- Traditional Web Application Capabilities
- Single Page Application Advantages
- SPA and Traditional Web Sites
- SPA Challenges
- Implementing SPA's Using Angular 4
- Simple SPA Using Visibility Control
- SPA Using Angular Components
- SPA with Angular Components – Switching
- SPA with Angular Components – The Displayed Component
- Implement SPA Using an Angular Component Router

CHAPTER 12: THE ANGULAR COMPONENT ROUTER

- Routing and Navigation
- The Component Router
- Traditional Browser Navigation
- Component Router Terminology
- Setting up the Component Router
- Local URL Links
- Browser pushState
- Routes
- The app.routes.ts File
- The app.routes.ts File – Example
- Bootstrapping Routing in Main.ts
- A Basic App With Routing
- App Routes
- AppComponent – Code
- AppComponent – Router Related Features
- AppComponent – precompile array
- AppComponent – routerLinks
- Programmatic Navigation
- Basic Navigation
- Passing Data During Navigation
- Creating Routes with Route Parameters
- Navigating with Route Parameters
- Using Route Parameter Values
- Retrieving the Route Parameter Synchronously

- Retrieving a Route Parameter Asynchronously
- Query Parameters
- Query Parameters – Example Component
- Query Parameters – queryParams
- Query Parameters – Navigation
- Retrieving Query Parameters Asynchronously
- Problems with Manual URL entry and Bookmarking
- Fixing Manual URL entry and Bookmarking

Contact Info:



+91 9884412301 | +91 9884312236



Know more about [Angular 4](#)



info@credosystemz.com



New # 30, Old # 16A, Third Main Road,
Rajalakshmi Nagar, Velachery, Chennai
(Opp. to MuruganKalyanaMandapam)

[BOOK A FREE DEMO](#)