

Avinash Konduri

Full Stack Developer

Duration 45 Days

Section 1: Introduction & Basics of Angular

Section 2: First App in Angular [Practical Starts Here]

Section 3: Data Binding,ngFor,Style Management, Pipes, Build-in Directives

Section 4: TypeScript Crash Course

Section 5: Modules & Services

Section 6: Rxjs & Rest API calls

Section 7: Authentication & Security

Section 8: Template Driven Forms

Section 9: Reactive Forms

Section 10: Component Communication

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Section 11: Debugging and
Auto-Deployment

Section 12: Life Cycle Hooks

Section 13: Pipes - Deep Dive

Section 14: Directives - Deep Dive

Section 15: Advanced Routing

Section 16: Animations

Section 17: Feature Modules

Section 18: Dynamic Components

Section 19: Unit Testing and Angular
Zones

Sections



Introduction & Basics of Angular

Course Introduction

Introduction to Angular

Where to Start Practical

Goals of Angular

Code Compilation Process in Angular

Do's and Don'ts of Angular

Building Blocks of Angular

Angular Architecture

Overview of Angular packages

Angular Folder Structure

First App In Angular[Practical Starts Here]

Setting-up Environment

Creating First App in Angular

Adding Bootstrap

Adding Bootstrap Navbar

Creating & Nesting Components

Creating Basic Routing

Type Scripts Crash Course

TypeScript Overview

Creating our first Typescript Application

Defining Variables - Overview

Creating Loops and Arrays

Creating classes

Defining Accessors

Configuring Compiler Options with
tsconfig.json

Parameter Properties

TypeScript Modules: Import and Export

Type Scripts Crash Course

Interface

Inheritance - creating Superclass and subclass

Inheritance - pulling it all together in a main app

inheritance - Developing a second class

Abstract classes

Interfaces

Data Binding, ngFor, Style Management, Pipes, Build-in Directives

Creating Dashboard

ngFor & nested ngFor

Overview of Data Binding & working with
all types of Binding

Style handling & ngClass

ngIf & ngIf-else & ng-template

Built-in Pipes & Data Formats

ngSwitch

Modules & Services

Creating Custom Modules

Creating Services & Dependency Injection

RxJS & REST API Calls using Ajax

What is RxJS: Observable and Observer

Introduction to AJAX

Retrieving Data

Inserting Data

Updating Data

Deleting Data

Searching Data

RxJS Observable - Map with AJAX

Authentication & Security

User Authentication

Understanding JWT

JWT Authentication

Http Interceptors

Catching 401 Unauthorized Responses
using Interceptors

CanActive Guard

Role Based Authentication

Cross Site Request Handling

Template Driven Form

Adding checkbox, Radio Button,
DropDownList

Validations in Template Driven Forms

Custom Validations in Template Driven
Forms

Cross Field Custom Validations in
Template Driven Forms

Async Custom Validation in Template
Driven Forms with REST-API Calls

Reactive Forms

Understanding Reactive Forms & Creating
SingnUp form Using Reactive Forms

Adding Radio Buttons to Reactive Forms

Adding Dynamic Radio Buttons to Reactive
Forms

Adding Dynamic DropDownList

Adding Checkbox to Reactive Form

Subscribing to valueChanges Observable

Form Array

Form Builder

Validation in Reactive Forms

Custom Validation in Reactive Forms

Async Validation with REST-API Calls

Component Communication

Parent to Child Communication using Input
Binding

Child to Parent Communication using output
Binding

Parent to Child - using `ViewChild`

Parent to Child - using `ViewChildren`

Component communication using `Services`

Custom `RxJS` Observables

`RxJS` Subject

`RxJS` BehaviorSubject

Passing Content from Child to Parent

Element Ref

Debugging and Auto-Deployment

Debugging the Angular Code

Using Gulp for Continuous Deployment

Life Cycle hooks

Overview of Life Cycle Hooks

`ngOnChanges`

`ngOnInit`

`ngDoCheck`

`ngAfterContentInit` and

`ngAfterContentChecked`

`ngAfterViewInit`, `ngAfterViewChecked`

`ngDestroy`

Pipes - Deep Dive

Creating Simple Custom Pipe

Parameterized Custom Pipe

Creating Complex Custom Pipe

Pure Pipes (Vs) Impure Pipe

Client Side Paging using Custom Pipe

Async Pipe

Directives - Deep Dive

Attribute Directive (Vs) Structural Directive

Custom Directives

Receiving Parameters using input Properties in Directives

HostListener

HostBinding

Renderer

Advanced Routing

Route Parameters

Child Routes

Nested Routes

Route Events

Server Side Logging using Router Events

CanDeactivate Guard

Animations

Introduction to Animations

Fade Animation

Slide-up Animation

Zoom-Up Animation

Zoom-Left Animation

slide - Left or Slide- Right Animation

KeyFrame Animation

Feature Modules

Introduction to Feature Modules

Proper Folder Structure for Enterprise Apps

Shared Module

Lazy Loading Module

Preloading Strategy of Lazy Loading

Dynamic Components

Preparing for Dynamic Components

Preparing Master Menu Dynamic

Loading Components Dynamically into Tabs

Data Binding to Dynamic Components

Destroying Dynamic Components

Unit Testing & Angular Zones

Unit Testing Basics in Angular

Unit Testing on Components

Angular Zones

Basics

- 1) Javascript
- 2) EcmaScript
- 3) EcmaScript 2016
- 4) Typescript
- 5) Promises
- 6) async/ await
- 7) Prototype Inheritance
- 8) V8 engine
- 9) Event loop
- 10) Single Thread Process
- 11) Mobile First design
- 12) display: Flow
- 13) Progresssive web apps
- 14) Service workers
- 15) auto refresh/ build pipe lines