

ADVANCED ANGULAR



Course: Adv. Certification in Angular JS

Introduction

What is SPA?
 Why Node along with Angular?
 Single Page Apps vs Conventional Web Applications
 Anatomy of Angular 2/4/5 Application
 Angular JS Environment Set-up
 NodeJS Setup
 IDE set-up (VS-Code)
 Angular-CLI Introduction & Set-up
 Bootstrap intro & set-up
 Architecture of Angular JS
 Structure of Angular Js Application

Type Script

Brief Intro to TypeScript
 Why Use TypeScript
 Getting Setup in VS-Code
 Data Types in Type Scripts
 Function, Fat Arrow Functions
 var, Let, const
 Debugging
 TypeScript Decision Making and Loops
 Maps
 TypeScript Class, Interface, Objects,
 Namespace and Modules
 TypeScript Generics

Intro to Component

What is component?
 Creating Component class
 Metadata with Decorator
 Importing Modules
 Creating App Component
 Angular Bootstrapping process
 Single Page Application Intro

Template, Interpolation and Directives

Building a Template
 In-lined And External Templates
 Building a Component
 Using Component as a Directive
 Binding with Interpolation
 Styling Template
 Creating and Displaying Data for Component
 Directives (Built-in i.e *ngIf, *ngFor etc. and Custom) - Create and use Custom directive.

Binding and Pipes

Types of Angular Binding (One-Way, Two-Way, Event Binding etc. etc.)
 Event Handling
 Transforming Data Using Built-in Pipes
 Creating Custom Pipes

Component-Best practices

Strong Typing & Interfaces
 Encapsulating Styles
 Life-cycle hooks of component
 Relative Path and Module Id - Code
 Debugging Techniques
 Building Nested Components
 what is Nested Components
 Communication among the Nested Components
 @Input, @Output
 Passing Data to a Component
 Passing Data from a Component

Services and Dependency Injection-

Angular Service Introduction
 Building a Service
 Dependency Injection in Angular
 Injecting a service
 Displaying data from Service

Consuming server side (JSON) data Using HTTP

Client-Server Architecture Discussion
 Retrieving Data using HTTP
 Get Data from another domain
 Observable and RxJS (Reactive Extension Concept)
 Promise vs Observable
 Exception Handling

Navigation and Routing Basics

Routing Concepts
 Routing Configuration
 Routes to Acting Tying
 Passing Parameters to Route

Navigation Routing Advance Techniques

Routes Protection and its Requirement in Web App
 Types of Guards
 Building Guard
 Registering a Guard
 Implementing Guard in Parametric Routes

Forms

Controls
 Control groups
 Template driven Forms
 Reactive Forms

Highlights

This course Covers the features of Angular 2 to 8
 This course will also cover a project.

