Angular 9

Angular 9 Introduction and Environment Set Up

In this module, we will learn what is angular, what are the major differences between AngularJs and Angular.

We will also learn how to set up in the local development environment and a small introduction about typescript.

What is Typescript and ECMAScript?, with Features, AOT, JIT, TSC (Transpilation) Work and Config, code difference in JS and TS.

What is Angular 9?

What is the framework?

What is Components-Based Web Development? And the benefits.

AngularJs (vs) Angular 9

Setup for the local development environment

Angular files and folder structure with JSON configuration

Role of Node JS and NPM in Angular

What is CLI? Angular CLI (Command Line Interface)

Commands

Introduction Of Example Project

Start First Angular 9 S. P. A. from basic

Execution of angular.json and package.json

Linking between all project files in MVC architecture

Creating our first element and typescript

Selector: customize or ignore tag(s)

Decorators and Metadata

Import and imports array,

Component and @Component, NgModule and @NgModule,
bootstrap, Selector and template,

styles array, and the styleUrls array

Declaration array, class,

BrowserModule and bootsrapModule etc.

Launching the application.

Role of the Module and Components.

Splitting of Module and Component.

Exporting in Angular

Angular 9 Directives

Structural directives

   Built-in Directives

ngIF, ngFor, ngSwitch

Style and Class Directives

ngClass, [class.clsName]

ngStyle, [style.stlName]

Attribute directives

Customise Directive

Component: Way to Create, Split and reuse it.

Host Listener and Host Binding

Data binding in Angular 9

Interpolation

Property binding

Event binding

Two-way Binding

Class binding

Style binding

Methods

Components in Angular 9

In this module, we will learn one of the major concepts in Angular 4.0 i.e., components. And we can also learn how tocreate a dynamic component (without a separate component file) using @Component.

What are the components?

Understanding Components lifecycle hooks

Creating a component with CLI

Split an Angular application using components to make the Angular application lightweight and high performance.

Modules in Angular 9

Root App module

Ahead-Of-Time(AOT) Compilation

Feature modules

Getting more Object Oriented:

Create a Model for data (validating data)

Classes – Properties, Methods, Constructors, Inheritance

Exporting a model

Mock data model (as the Angular team prefers)

Forms in Angular 9

Template Driven Forms

Reactive Forms

Validating forms

Customise validation

Pipes in Angular 9

Why are pipes useful?

Built-in pipes

Parameterizing pipes

Custom pipes

Angular 9 Services & Dependency injection

Creating Service

$http Service

Introduction to Injectors (Dependency Injection)

Providers: use and implementation