

**Angular 2****Introduction**

- ❖ Anatomy of Angular 2 Application
- ❖ Selecting Language
- ❖ Selecting Editor
- ❖ Setting up Environment and Angular 2 Application
- ❖ Running an Angular 2 Application
- ❖ About Modules
- ❖ Introduction to TypeScript

**Introduction to Components**

- ❖ What is a Component?
- ❖ Creating the Component Class
- ❖ Defining the Metadata with a Decorator
- ❖ Importing what we need
- ❖ Creating the App Component
- ❖ Bootstrapping App Component

**Templates, Interpolation and Directives**

- ❖ Building a Template
- ❖ Building the Component
- ❖ Using the Component as Directive
- ❖ Binding with Interpolation
- ❖ Adding Logic with Directives: ngIf
- ❖ Adding Logic with Directives: ngFor

**Data Binding & Pipes**

- ❖ Property Binding
- ❖ Handling Events with Event Binding
- ❖ Handling Input with Two-way Binding
- ❖ Transforming Data with Pipes

## More on Components

- ❖ Defining Interfaces
- ❖ Encapsulating Component Styles
- ❖ Using Lifecycle Hooks
- ❖ Building Custom Pipes
- ❖ Relative Paths with Module Id

## Building Nested Components

- ❖ Building a Nested Component
- ❖ Using a Nested Component
- ❖ Passing Data to a Nested Component Using @Input
- ❖ Passing Data from a Component Using @Output

## Services and Dependency Injection

- ❖ How does it Work?
- ❖ Building a Service
- ❖ Registering the Service
- ❖ Injecting the Service

## Retrieving Data Using HTTP

- ❖ Observables and Reactive Extensions
- ❖ Sending an HTTP Request
- ❖ Exception Handling
- ❖ Subscribing to an Observable

## Navigation and Routing Basics

- ❖ How Routing Works
- ❖ Configuring Routes
- ❖ Tying Routes to Actions
- ❖ Placing the Views

## Navigation and Routing Additional Techniques

- ❖ Passing Parameters to a Route
- ❖ Activating a Route with Code
- ❖ Protecting Routes with Guards

## Angular Modules

- ❖ What Is an Angular Module?
- ❖ Bootstrap Array
- ❖ Declarations Array
- ❖ Exports Array
- ❖ Imports Array
- ❖ Providers Array
- ❖ Feature Modules
- ❖ Shared Module
- ❖ Revisiting AppModule

## Angular 2 Forms

- ❖ Registering input form controls to Angular
- ❖ Validation
- ❖ Form state and Angular generated CSS classes
- ❖ Default values with Property Binding
- ❖ Two-way binding with ngModel
- ❖ ngModelGroup
- ❖ Radio and Select controls
- ❖ Conditionally display error message
- ❖ Conditionally disable Submit button

## Angular 2 Unit Testing

- ❖ Introduction to Jasmine
- ❖ Introduction on Karma
- ❖ Unit-testing Angular app

## Angular 2 Setup Revisited

- ❖ TypeScript Configuration File (tsconfig.json) & TypeScript Definitions File (typings.json)
- ❖ npm Package File (package.json)
- ❖ SystemJS Configuration File (systemjs.config.js)
- ❖ index.html File Scripts
- ❖ Bootstrapping Revisited
- ❖ Angular CLI