



Web and Mobile Application Development using Angular 5 - 3 Days

Date: TBC

Location: Axsel Training Centre, PJ



SBL
Claimable

Introduction

Angular 5 was conceived as a complete rewrite in order to fulfill the expectations of modern developers who demand fast performance and responsiveness from their web applications.

Participants will set up working environment to have all the tools needed to start building Angular 5 components with minimum effort.

Participant will understand TypeScript, a powerful typed superset of JavaScript that compiles to plain JavaScript.



Learning Outcomes

In this course, developers will learn to use Angular 5 Directives and to create Angular 5 Components and Services to develop applications based on the Model-View-Controller (MVC) architecture.

Developers will also explore how to consume external APIs and data services and allow data editing by harnessing the power of web forms made with Angular 5.

Who should attend

This course is intended for anyone who has an interest in learning to develop Angular 5 applications or websites quickly.

Participants will gain not only a conceptual understanding of Angular 5, but hands-on experience as well.

Event Details

TIME

9.00 am to 5.00 pm

VENUE

Axsel Training Centre
No.19, First Floor,
Jalan 1/21, Seksyen 1,
46000 Petaling Jaya,
Selangor D.E.

FEE:

Individual: RM 1,800.00 pax
Early Bird: RM 1,750.00 pax
Group : RM 1,620.00 pax

This program is SBL Claimable (include morning & afternoon tea break, lunch, notes, certificate of attendance and 6% GST)

Also available as in-house program. Contact us for details.

1. Introduction to Angular

- What is Angular 4?
- Central Features of the Angular Framework
- Scope and Goal of Angular
- Angular 4 vs. AngularJS
- Installing and Using Angular 4
- Adding Angular 4 and Dependencies to Your App
- Building Blocks of and Angular 4 Application
- A Basic Angular 4 Application
- What is new in Angular 4

2. Building with Components

- Introducing the component tree
- Explaining Dependency Injection
- Component Starter
- Developing a Simple Feedback Component
- Feedback Component: Add HTML
- The HTML Component Template
- The templateUrl property
- Feedback Component: Add CSS Styling
- Feedback Component: Hook Up Input Fields and Button
- Feedback Component: Fields & Button in the Component Class
- Component Decorator Properties
- Component Lifecycle Hooks
- Using a Lifecycle Hook: OnInit

3. 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

4. Attribute Directive and Property Binding

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

5. 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

6. 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 Validators
- Angular Validation State
- 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

7. Services 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 a Service in a Component: Dedicated Instance - Example Code
- Using ngOnInit to Initialize Component Data
- Using a Shared Service Instance
- Dependency Injection and @Host
- Dependency Injection and @Optional

8. HTTP Client

- The Angular HTTP Client
- Using The HTTP Client - Overview
- Setting up HTTP_PROVIDERS in the Root Component
- Importing Individual Providers into Services
- Service Using Http Client
- 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 PeopleService Client Component
- Client 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
- POST Request Example
- Reading HTTP Response Headers

9. Pipes and Data Formatting

- What are Pipes?
- More on Pipes
- Using a Built-in Pipe
- Built-In Pipes
- Using Pipes in HTML
- Chaining Pipes
- CurrencyPipe
- Custom Pipes
- Using Custom Pipes
- A Filter Pipe
- A Sort Pipe
- Pipe Category: Pure and Impure
- Pure Pipe Example
- Impure Pipe Example
- Summary

- Using Pipes in JavaScript
- Some Pipe Examples

10. 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 and Routes
- The app.routes.ts File
- Bootstrapping Routing in Main.ts
- A Basic App With Routing
- App Routes
- AppComponent
- 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 and Asynchronously
- Query Parameters
- Query Parameters - queryParams
- Query Parameters - Navigation
- Retrieving Query Parameters Asynchronously
- Problems with Manual URL entry and Bookmarking
- Fixing Manual URL entry and Bookmarking
- Summary