



Course Brochure

ANGULAR 4

Overview

- To make you ready to develop a web site / web application using the latest client side web technologies and web standards.

Pre-requisites

- HTML 5, CSS 3, JavaScript

Applications

COURSE CONTENTS

Fundamentals of the Course

- ❖ Introduction to Angular 2 / Angular 4
- ❖ Advantages of Angular 4
- ❖ AngularJS (vs) Angular 4
- ❖ Introduction to package.json and npm
- ❖ Basics of TypeScript: Introduction, tsc, Data Types, Classes, Objects, Data Members, Methods, Constructors, Inheritance, Interfaces, Fat Arrow Functions, tsconfig.json.

Angular 4

- ❖ Basics
- ❖ Introduction to Angular 4
- ❖ Advantages
- ❖ Angular 4 Architecture
- ❖ Building Blocks of Angular 4
- ❖ Angular 4 Compilation Process Overview
- ❖ Angular 4 Built-in Packages
- ❖ Project Folder Structure
- ❖ Package.json, tsconfig.json, systemjs.config.js
- ❖ Need of System.js, Core.js, Rx.js, Zone.js
- ❖ Http-server package

Components

- ❖ What are Components
- ❖ Component Architecture
- ❖ Creating Components
- ❖ Component Annotations
- ❖ Bootstrapping Components
- ❖ Invoking Components
- ❖ TemplateUrl
- ❖ Working with multiple components
- ❖ Sharing data from parent to child component
- ❖ Component Lifecycle

Modules

- ❖ Creating Modules
- ❖ Declarations, exports, imports, bootstrap
- ❖ Module Architecture
- ❖ Creating multiple modules

Views

- ❖ Creating Views
- ❖ Expressions
- ❖ Data Bindings
- ❖ Template Driven Forms
- ❖ Reactive Forms
- ❖ Validations in Template Driven Forms
- ❖ Validations in Reactive Forms
- ❖ Styles and ngClass
- ❖ \$event

- ❖ ngIf, ngFor, TrackBy, ngSwitch
- ❖ Expressions

Services

- ❖ What are Services
- ❖ Creating Services
- ❖ Invoking Services
- ❖ Injectable and Dependency Injection
- ❖ Sharing Data among Components using Services
- ❖ Custom Events
- ❖ Promise

Pipes

- ❖ What are pipes
- ❖ Uppercase
- ❖ Lowercase
- ❖ Number
- ❖ Currency
- ❖ Percent
- ❖ Slice
- ❖ Date
- ❖ Json
- ❖ Custom Pipes
- ❖ @Pipe, PipeTransform, "transform" method
- ❖ Invoking Custom Pipes

Routing

- ❖ Introduction to Routing
- ❖ Creating Routes
- ❖ Hash-less routing and Hash routing
- ❖ routeLink
- ❖ Route Parameters

AJAX

- ❖ Introduction to AJAX
- ❖ AJAX Architecture
- ❖ Introduction to "Http" package
- ❖ Get
- ❖ Post
- ❖ Put
- ❖ Delete

Animations

- ❖ Introduction to Animations
- ❖ Trigger, state, transition

Unit testing

- ❖ Introduction to Unit Testing
- ❖ Creating Test Cases
- ❖ Executing Test Cases using Karma