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## About Codefrux

While the current trends around the world are based on the internet, mobile and its applications, we try to make the most out of it. As for us, we are a well established IT professionals based in Bangalore, constantly coping up with the extensive advancement and adapting to new Technology. Since the start of the company in 2010, our niches are Mobile Application Development, Web Application Development, Staffing Services and Training Programs (includes Corporate Training).

## What you will Learn In This Course

- Learn fundamental Javascript concepts that power AngularJS.
- Write quicker, better AngularJS code by discovering how AngularJS itself is built.
- Become fluent in AngularJS terminology, such as dependency injection, services, directives, transclusion, and more.
- Realize the power of dependency injection, and how AngularJS accomplishes it.
- Design custom directives and save time and energy with easily reusable components.
- Understand what a Single Page Application (SPA) is, and how they work.
- Build a Single Page Application (SPA) in AngularJS.
- And Many More

## Who can learn Angular JS

There is a huge demand for Angular JS professionals in IT industry. Software engineers, UI Developers, web developers can do this course.

## 1. AngularJS Basics

- 1) How Webpages gets your browser
- 2) What is a Browser?
- 3) What is AngularJS?
- 4) Introduction to HTML
- 5) Introduction to JavaScript
- 6) Summary
- 7) Hands on

## 2. Angularjs Essentials

### Topics

- 1) Angular.js
- 2) Single Page Web Application
- 3) Single Page Web App Challenges
- 4) Applying Angular.js to HTML File
- 5) Angular.Module
- 6) The ng-app Attribute
- 7) Creating a Data Module
- 8) Controller
- 9) Creating a Controller
- 10) The \$scope Object
- 11) Creating a View
- 12) Creating Controller Behavior
- 13) Summary
- 14) Hands on

## 3. Working with Directives

### Topics

- 1) About Directives
- 2) Directive Categories
- 3) Types of Directives
- 4) Built-in Directives
- 5) The ng-init Directive
- 6) The ng-bind Directive
- 7) The ng-init & ng-bind as Attribute
- 8) The ng-init & ng-bind as CSS Class
- 9) Expressions
- 10) Input Elements With Expressions
- 11) Expression Gets Controller Data
- 12) Forms of Directives
- 13) ng-app vs. data-ng-app vs. x-ng-app
- 14) The ng-init scope
- 15) Expression within ng-init
- 16) The ng-checked Directive

- 17) The ng-class Directive
- 18) ng-class – Evaluating a string
- 19) ng-class – Evaluating an Object
- 20) ng-class – Evaluating an array
- 21) The ng-style Directive
- 22) The ng-show Directive
- 23) The ng-hide Directive
- 24) The ng-if Directive
- 25) Implication of ngIf Directive
- 26) The ng-readonly Directive
- 27) The ng-selected Directive
- 28) The ng-open Directive
- 29) The ng-switch Directive
- 30) The ng-value Directive
- 31) Custom Directives
- 32) The directive Method
- 33) The template Field
- 34) Simple Custom Directive
- 35) The templateUrl Field
- 36) The templateUrl Field - String
- 37) The templateUrl Field – function
- 38) Scopes in Custom Directives
- 39) Type of Scopes
- 40) Custom Directive inherits Scope Object
- 41) Shared Scope
- 42) Inherited Scope
- 43) Isolated Scope
- 44) Pass data as a String using @
- 45) Passing Data as Object using =
- 46) The replace Option
- 47) The transclude Option
- 48) The transclude Option using ngTransclude
- 49) Multiple Directives for Same Element
- 50) The priority Option
- 51) The terminal Option
- 52) Angular Expression vs JS Expression
- 53) Summary
- 54) Hands on

## 4. Working with Controllers

### Topics

- 1) About Controller
- 2) Creating Controller
- 3) The ng-controller Directive
- 4) About \$scope Object
- 5) Controller \$scope Object Visibility

- 6) Adding Behavior to a Scope Object
- 7) Multiple Controller
- 8) Single Controller Multiple Views
- 9) Single Controller Multiple Views Scope – Primitive Option 1
- 10) Single Controller Multiple Views Scope – Primitive Option 2
- 11) Single Controller Multiple Views Scope – Reference Option 1
- 12) Single Controller Multiple Views Scope – Reference Option 2
- 13) Nested Controller
- 14) Nested Controller Visibility
- 15) Nested Controller Visibility using \$parent
- 16) Automatically Create New Property
- 17) The ng-init vs controller Visibility
- 18) Summary
- 19) Hands on

## 5. Working with Models & Data Bindings

### Topics

- 1) The ng-repeat Directive
- 2) Iterate Object Properties using ng-repeat
- 3) Iterate Object Properties using ng-repeat in Angular.js Version 1.3
- 4) Iterate Object Properties using ng-repeat in Angular.js Version 1.4
- 5) Iterate Array of Objects using ng-repeat
- 6) Formats of ng-repeat Directives
- 7) Using (key, value) in expression Format
- 8) Built-in ng-repeat Properties
- 9) The ng-class-odd & ng-class-even
- 10) Repeating Multiple Top Level Elements
- 11) How ng-repeat behaves when Collection Changes?
- 12) How ng-repeat behaves when Collection contains Duplicate elements?
- 13) The track by Expression
- 14) The track by \$index Option
- 15) The track by Custom Function Option
- 16) The track by Object ID Option
- 17) Default track by Option
- 18) Nested ng-repeat
- 19) Model
- 20) About Data Bindings
- 21) Kinds of Data Bindings
- 22) One Way Binding
- 23) The ng-bind-template Directive
- 24) The ng-bind-html template
- 25) Two way Bindings
- 26) Single Source of Truth
- 27) Dynamically Creating the Property
- 28) Dynamically Creating the Object
- 29) Check Property Exists

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- 30) The ng-bind vs ng-model
  - 31) One Time Binding
  - 32) Preventing Inline Data Binding
  - 33) Summary
  - 34) Hands on

## 6. Working with Form Elements

### Topics

- 1) The input[text] Element
- 2) The textarea Element
- 3) The input[checkbox] Element
- 4) The input[radio] Element
- 5) The select Element
- 6) Statically specify the option element – Single Selection
- 7) Statically specify the option element – Multiple Selection
- 8) Unknown Option
- 9) Dynamically generate the option element
- 10) The ngOptions Directive
- 11) Changing the selection value
- 12) Forms for Array Data Source
- 13) label for value in array
- 14) select as label for value in array
- 15) label disable when disableexpr for value in array
- 16) label disable when disableexpr for value in array track by trackexpr
- 17) Creating optgroup Elements
- 18) label group by group for value in array
- 19) label group by group for value in array track by trackexpr
- 20) Forms for Object Data Source
- 21) label for (key , value) in object
- 22) select as label for (key , value) in object
- 23) label group by group for (key, value) in object
- 24) label disable when disable for (key, value) in object
- 25) select as label group by group for (key, value) in object
- 26) select as label disable when disable for (key, value) in object
- 27) The ngRepeat vs ngOptions
- 28) The ngList Directive
- 29) Summary
- 30) Hands on

## 7. Working with Events

### Topics

- 1) Simple Click Event
  - 2) Pass Data To Event Handler
  - 3) Click Event
  - 4) Blur Event
  - 5) Focus Event
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- 6) Change Event
- 7) Cut Copy Paste Event
- 8) Key Event
- 9) Mouse Event
- 10) Summary
- 11) Hands on

## 8. Working with Form Validations

### Topics

- 1) About Form Validation
- 2) Angular.js Form Validation
- 3) The form element for Angular.js
- 4) Need for the name Attribute
- 5) Need for the novalidate Attribute
- 6) Need for the ngSubmit Directive (Optional)
- 7) Input Controls Name Attribute
- 8) Input Controls Validation Attributes
- 9) The required Attribute
- 10) Type Attributes Validation Tokens
- 11) The input[type=email] Validation
- 12) The input[type=number] Validation
- 13) The input[type=url] Validation
- 14) Built-in Validation Tokens
- 15) Supported Validation Directives
- 16) Validation Variables
- 17) The \$valid Variable
- 18) The \$invalid Variable
- 19) The \$pristine Variable
- 20) The \$dirty Variable
- 21) The \$error Variable
- 22) HTML & Angular Attributes vs Error
- 23) Type Attributes vs Error
- 24) Summary
- 25) Hands on

## 9. Working with Routing

### Topics

- 1) The \$location Service
- 2) The \$location vs window.location
- 3) The location.absUrl Method
- 4) The location.protocol Method
- 5) The location.host Method
- 6) The location.port Method
- 7) The location.url Method
- 8) The location.path Method
- 9) The location.hash Method

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- 10) The url & path & hash Method
  - 11) The location.search Method
  - 12) Routing
  - 13) The angular-route.js file
  - 14) URL Routes
  - 15) About \$routeProvider
  - 16) Routing Syntax
  - 17) The when Method
  - 18) The templateUrl Configuration Option
  - 19) The otherwise Method
  - 20) Methods for Loading HTML
  - 21) The ng-view Directive
  - 22) Simple Route Program
  - 23) ngView directive creates new scope
  - 24) URL Segments
  - 25) Pass Parameters in Route URLS's
  - 26) Type of Route Parameters
  - 27) Conservative Route Parameters
  - 28) Accessing Routes & Route Parameters
  - 29) Eager Route Parameters
  - 30) Optional Route Parameter
  - 31) The \$route Service
  - 32) The current Property
  - 33) Configuration Modes
  - 34) Configuration Parameters
  - 35) The html5mode(mode) Parameter
  - 36) The hashPrefix(prefix) Parameter
  - 37) The Hashbang Mode
  - 38) The HTML5 Mode
  - 39) Hashbang mode vs HTML5 mode
  - 40) The Script Directive
  - 41) The ng-include Directive
  - 42) Partial View
  - 43) Partial View without closing Tag
  - 44) Dynamically Loading the Partial View
  - 45) The ngInclude Same Scope Data
  - 46) The ngInclude New Scope Data
  - 47) Summary
  - 48) Hands on

## **10. Working with Filters**

### **Topics**

- 1) About Filters
  - 2) Applying Filters
  - 3) Simple Filter
  - 4) The OR Operator with Filter
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- 5) Types of Filters
  - 6) Built-in Filter For Single Value
  - 7) The Currency Filter
  - 8) The number Filter
  - 9) The date Filter
  - 10) The format String
  - 11) Predefined Localizable Formats
  - 12) The date Format
  - 13) The json Filter
  - 14) The uppercase Filter
  - 15) The lowercase Filter
  - 16) Built-in Filter For Collection Value
  - 17) The filter Filter
  - 18) The orderBy Filter
  - 19) The limitTo Filter
  - 20) Summary
  - 21) Hands on

## **11. Working with Functions**

### **Topics**

- 1) Objectives
- 2) StringFunctions
- 3) Copy
- 4) Extend
- 5) ForEach
- 6) Equal
- 7) CheckingFunction
- 8) JSONRelatedFunctions
- 9) Summary
- 10) Hands on

## **12. Working-with-JqLite**

### **Topics**

- 1) Objectives
  - 2) Element
  - 3) Retrieve Data
  - 4) CSSRelated Methods
  - 5) Properties And Attributes
  - 6) Data
  - 7) Empty
  - 8) Wrap
  - 9) Ready
  - 10) Events
  - 11) Append After
  - 12) Append After With JQuery
  - 13) Parent Next
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- 14) Parent Next With JQuery
  - 15) Detach Remove Element
  - 16) Retrieve Elements
  - 17) Retrieve Elements JQuery
  - 18) Eq
  - 19) Summary
  - 20) Hands on

### **13. Working-with-Services**

#### **Topics**

- 1) Angular.js Services
- 2) Type of Services
- 3) Built-in Services
- 4) The \$window Services
- 5) Custom Services
- 6) Using factory Method
- 7) Consuming the Services
- 8) Using Service Method
- 9) The provider Method
- 10) The constant Method
- 11) The value Method
- 12) The decorator Method
- 13) The \$delegate Injection
- 14) Services are Singleton Object
- 15) Summary
- 16) Hands on

### **14. Dependency Injection (DI)**

#### **Topics**

- 1) About Dependency Injection
- 2) Angular.js Dependency Injection
- 3) Angular.injector
- 4) Annotating Service Name
- 5) Implicitly from the function parameter names
- 6) Dependency Injection and Minification
- 7) Overcome Angular.js DI approach?
- 8) Using \$inject
- 9) Using \$inject – Different Order
- 10) Inline Annotation for Parameters
- 11) Strict Dependency Injection
- 12) Summary
- 13) Hands on

### **15. Angular-4 new features**

#### **Topics**

- 1) If...Else Template Conditions
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- 2) Animation Module
  - 3) TypeScript's StrictNullChecks
  - 4) Angular Universal
  - 5) FESM
  - 6) Angular2 to Angular4 migrartion
  - 7) Router ParamMap
  - 8) TypeScript 2.1/2.2
  - 9) Summary
  - 10) Hands on



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## **Project Work**

After course completion, students will be assigned to work on live project to polish the technology skills you have acquired with us.