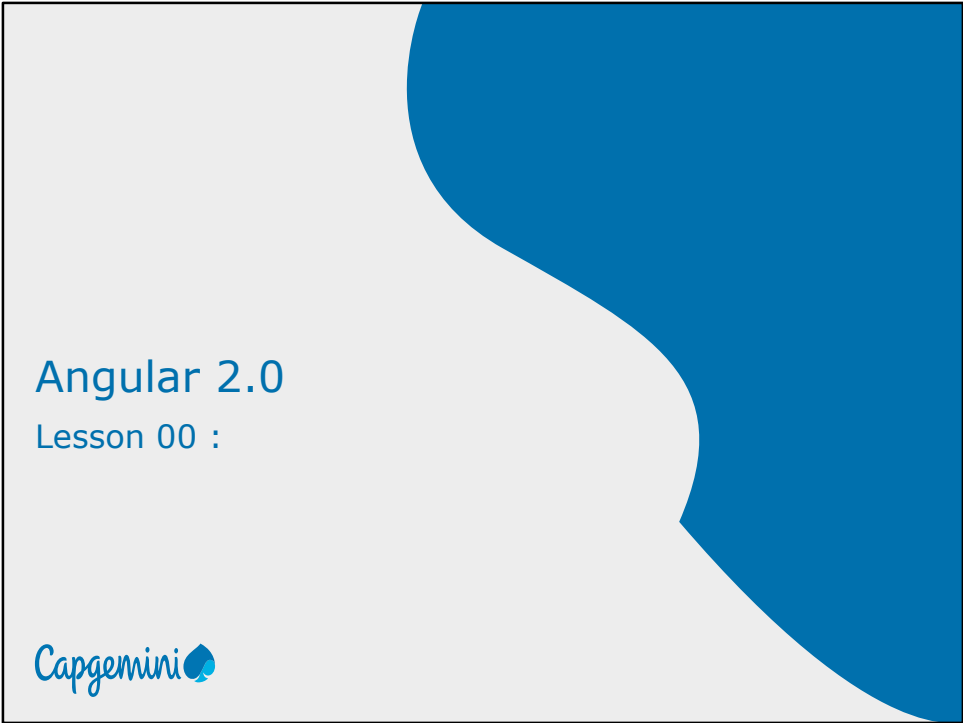


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Document History



Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
16/02/2018	1.0	1.2	Rahul Vikash	

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# Course Goals and Non Goals

- Course Goals
  - Learning the fundamentals of AngularJS.
- Course Non Goals
  - Comparison with other MV\* frameworks like Backbone.JS, Knockout, EmberJS, Meteor, ExtJS
  - Writing unit tests and Integrated end to end test for Angular components



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## Pre-requisites



- HTML, JavaScript-OOPS & jQuery Basics

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# Intended Audience

- Web application developers



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# Day Wise Schedule



- Day 1
  - Lesson 01 : Introduction to Typescript
  - Lesson 02 : Angular Fundamentals
  - Lesson 03 : Components
- Day 2
  - Lesson 04 : Data Binding
  - Lesson 05 : Directives
  - Lesson 06 : Working with Forms
- Day 3
  - Lesson 07 : Service and Dependency Injection
  - Lesson 08 : HTTP Client
  - Lesson 09 : Pipe
  - Lesson 10 : Routing

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# Table of Contents



- Lesson 01 : Introduction to Typescript
  - Typescript
  - Why TypeScript?
  - Basic Types
  - Type Annotations
  - Arrow Functions
  - Classes in TypeScript
  - Static Property
  - Function
  - Optional, Default & Rest Parameters
  - Template Strings
  - Function Overload
  - Generics
  - Inheritance
  - Interfaces
  - Modules

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# Table of Contents



- Lesson 02 : Angular Fundamentals
  - What is Angular 2?
  - Why Angular 2?
  - Angular 2 Code Editors
  - What is node JS?
  - Angular 2 Dependencies
  - Installing and using Angular 2
  - Building Blocks of an Angular 2
  - A Basic Angular 2 Application
  - A Basic Angular 2 Application – Module
  - Importing Modules
  - A Basic Angular 2 Application – Root Module



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# Table of Contents



- Lesson 03 : Components
  - What is component?
  - Angular component using TypeScript
  - Component Class
  - Component Metadata
  - Template
  - Component Style
  - Component Lifecycle
  - Lifecycle Hooks
  - Accessing Component Lifecycle hooks
  - Lifecycle hooks execution order

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# Table of Contents



- Lesson 04 : Data Binding
  - Data Binding
  - Interpolation (One-Way Binding)
  - Property Binding
  - Event Binding
  - Two-Way Binding
  - Nested Components
  - Using @Input and @Output
- Lesson 05 : Directives
  - What is a directives?
  - Structural Directives
  - Attribute Directives
  - @HostBinding and @HostListener

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# Table of Contents



- Lesson 06 : Working with Forms
  - Forms in Angular 2
  - Template Driven Forms
  - Validation of Forms
  - Model Driven Forms
  - Custom Validation
- Lesson 07 : Services and Dependency Injection
  - Dependency Injection
  - Services
  - Working with Services in Angular 2
  - Providers

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# Table of Contents



- Lesson 08 : HTTP Client
  - Observables
  - Introducing RxJS
  - Angular 2 HTTP
  - Http Class
  - Catch Operator
  - Communication with JSONP
  - Server Simulation
- Lesson 09 : Pipes
  - Pipe
  - Built-in Pipes
  - Chaining Pipes & Parameterizing a pipe
  - Custom Pipes

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# Table of Contents



- Lesson 10 : Routing
  - Routing
  - AngularJS Routes
  - Routing Setup
  - Components of Angular 2 routing
  - Routers
  - Routes
  - RouterOutlet
  - RouterLink
  - Routing Strategy
  - Route Parameters
  - ActivatedRoute

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## References



- <https://docs.angularjs.org/guide>
- <https://docs.angularjs.org/api>



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Next Step Courses (if applicable)



- Creating Web application using MEAN (MongoDB, ExpressJS, Angular, NodeJS) Stack

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## Other Parallel Technology Areas



- Backbone Js
- Ember Js
- Knockout Js