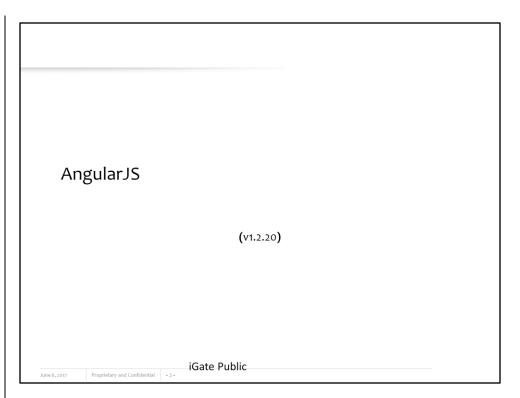


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### Course Goals and Non Goals

### Course Goals

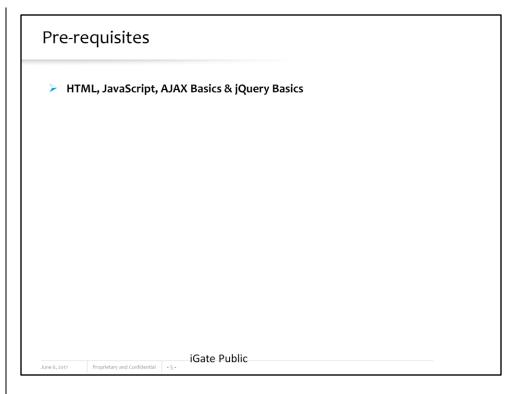
- Learning the fundamentals of AngularJS.



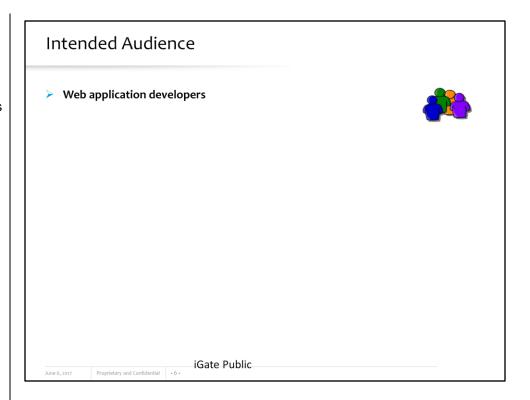
### Course Non Goals

- Comparison with other MV\* frameworks like Backbone.JS, Knockout, EmberJS, Meteor, ExtJS
- Writing unit tests and Integrated end to end test for Angular components
- Creating RESTful Services.

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## Day 1 Lesson 1: Introduction to AngularJS Day 2 Lesson 2: AngularJS Directives Day 3 Lesson 3: AngularJS Filters Lesson 4: AngularJS Services Day 4 Lesson 5: AngularJS Routing

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### Lesson 1: Introduction to AngularJS

- 1.1. JavaScript Fundamentals
  - JavaScript fundamentals
  - Objects in JavaScript
  - · Creating objects
  - · Checking for non existing property in object
  - Iterating over object keys
  - · Object reference
  - this keyword
  - Constructor Function
  - Prototypal inheritance
  - Static variables and methods
  - JavaScript Functions
  - Working with JavaScript Functions

### 1.2. MV\* Frameworks

- MV\* Frameworks
- Model, View and Controllers

### 1.3. AngularJS Introduction

- AngularJS FeaturesAngularJS Controller and Scope
- AngularJS Model

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### **Table of Contents** AngularJS View and Templates AngularJS Modules AngularJs Expressions \$rootScope • Steps for Coding Hello World in AngularJs Dependency Injection AngularJS Services injector Service How Angular uses injector Service Config and Run Method jqLite How AngularJs Works Lesson 2: AngularJS Directives 2.1: Controllers Controllers Controllers – Best practices 2.2: Directives Introduction Directives 2.3: Built-In Directives Built-In Directives Built-In Event Directives

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### 2.4: Form Validation Directives

Form Validation

### 2.5: Custom Directives

- Custom Directives
- Applying restrictions to directives
- Custom Directives template
- Custom Directives templateUrl
- Custom Directives compile() & link function()
- Custom Directives controller Function and require
- Custom Directives Directive's Scope
- · Custom Directives Isolated Scope using '@ = &'
- Custom Directives Transclusion
- Working with jQuery UI

### 2.6: Digest Cycle

- Digest Cycle and \$scope
- \$watch
- \$digest
- \$apply

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### Lesson 03: AngularJS Filters

3.1: Introduction to filters

- Filter
- 3.2: Built-In filters
  - Built-In Filters
- 3.3: Custom filters
  - Custom Filters

### Lesson 04: AngularJS Services

- 4.1: AngularJS Service Introduction
  - Service Introduction

### 4.2: Creating and Registering a Service

- Creating and Registering a Service
- Registering service using factory() function
- · Registering service using service() function
- Registering service using provider() function
- Registering a Service with \$provide
- Registering service using constant() function
- Registering service using value() function

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### **Table of Contents** 4.3: Built-In Services Built-In Services AngularJS promise • \$q Service \$http Service \$resource Service · \$anchorScroll Service \$cacheFactory Service \$compile Service \$locale Service • \$timeout Service Lesson 05: AngularJS Routing 5.1: AngularJS Routing RoutingAngularJS Routes Setting up page for routing Routing Modes Route Parameters \$routeParams \$route resolve property • \$location service Route Events iGate Public Proprietary and Confidential - 13 -

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### References

- ng-book The Complete Book on AngularJS by Ari Lerner
- O'REILLY AngularJS by Brad Green & Shyam Seshadri
- APress Pro AngularJS by Adam Freeman
- PACKT Publishing Instant AngularJS Starter by Dan Menard
- PACKT Publishing Dependency Injection with AngularJS by Alex Knol
- PACKT Publishing AngularJS Directives by Alex Vanston
- 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, AngularJS, NodeJS) Stack



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# Other Parallel Technology Areas Nockout Backbone.JS EmberJS Meteor ExtJS