



Angular JS Training Outline

➤ Introduction to Angular JS

- What does Angular JS do for me?
- Who controls Angular JS?
- How can I get Angular JS?

➤ Our first Angular JS application

- A basic application
- Using angular-seed
- The pieces of the puzzle
 1. Two-way data binding
 2. Directives
- How it fits together
 1. How much of the page is an Angular application?
 2. Model, View, Controller from the Angular JS Perspective

➤ Single Page Applications

- What do we mean by Single Page Application?
- Creating Angular Modules
- Using Angular's Routing Service
 1. Routing Basics
 2. Accessing URL Data
 3. Using the \$location Service
- Creating a Skeleton Single Page Application

➤ Controllers

- Where Controllers fit in, and what they do, from Angular's perspective

- Managing Scope
- Setting up Behavior
- Building a basic controller
- A more advanced controller

➤ Models

- How to create a model
- Explicit models
- Implicit models

➤ Views

- Angular's take on the View: a little bit different
- Tying a View to a Controller
- Tying a View to a mode

➤ Expressions

- Expressions are lightweight code snippets
- Expression capabilities
- Limitations
- The border between expressions and \$eval

➤ Filters

- Standard filters
- Writing your own filter
- Tying filters together

➤ Scopes

- What are scopes?
- What do scopes provide?
- Scope lifecycle



- Scopes as glue between controller and view
- Scope hierarchies
- Scope and events

➤ **Angular Forms**

- Angular forms vs HTML forms
- Angular form controls
- Form events
- The form controller
- Form validation
 - ✓ CSS classes for form data

➤ **Ajax, Data, and Angular**

- High level interactions with servers
- Low-level server interactions with \$http
- The deferred/promises API
- Making RESTful Service calls with \$resource

➤ **Directives**

- Teaching HTML new tricks
- Binding text and attributes
- Directive processing lifecycle

1. DOM Processing
2. Compilation
3. Linking

- A basic directive
- Directives and scopes
- Creating reusable directives
- Turning directives into components

➤ **Testing in Angular**

- Unit testing
 1. Working with Dependency Injection
 2. Other unit testing issues
- End-to-end testing
- Angular's E2E testing framework
- Commands and expectations
- Controlling what happens before and after the test
- Running a scenario

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