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AngularJS 1 Introduction

Duration: 3 days

Overview:

AngularJS is the leading framework for building dynamic JavaScript applications that take advantage of the capabilities of modern browsers and devices. AngularJS, which is maintained by Google, brings the power of the Model-View-Controller (MVC) pattern to the client, providing the foundation for complex and rich web apps. It allows you to build applications that are smaller, faster, and with a lighter resource footprint than ever before.

Prerequisites:

Attendees should have some prior understanding of web development, HTML, AJAX, and JavaScript.

Topics:

1 - Introduction to AngularJS

What is AngularJS?

Why AngularJS?

Scope and Goal of AngularJS

Using AngularJS

A Very Simple AngularJS Application

Building Blocks of an AngularJS Application

Use of Model View Controller (MVC) Pattern

A Simple MVC Application

The View

The Controller

Data Binding

Basics of Dependency Injection (DI)

Other Client Side MVC Frameworks

2 - AngularJS Module

What is a Module?

Benefits of Having Modules

The Run Phase Module Wide Data Using Value Module Wide Data Using Constant Module Dependency Using Multiple Modules in a Page 3 - AngularJS Controllers Controller Main Responsibilities About Constructor and Factory Functions Defining a Controller Using the Controller Controller Constructor Function More About Scope Example Scope Hierarchy Using Scope Hierarchy Modifying Objects in Parent Scope Modified Parent Scope in DOM Handling Events Another Example for Event Handling Storing Model in Instance Property 4 - AngularJS Expressions **Expressions** Operations Supported in Expressions AngularJS Expressions vs JavaScript Expressions AngularJS Expressions are Safe to Use! What is Missing in Expressions Considerations for Using src and href Attributes in Angular Examples of ng-src and ng-href Directives 5 - Basic View Directives

Life Cycle of a Module

The Configuration Phase

Introduction to AngularJS Directives

Controlling Element Visibility

Adding and Removing an Element

Dynamically Changing Style Class

The ng-class Directive
Example Use of ng-class
Setting Image Source
Setting Hyperlink Dynamically
Preventing Initial Flash
6 - Advanced View Directives
The ng-repeat Directive
Example Use of ng-repeat
Dynamically Adding Items
Special Properties
Example: Using the \$index Property
Scope and Iteration
Event Handling in Iterated Elements
The ng-switch Directive
Example Use of ng-switch
Inserting External Template using ng-include
7 - Working with Forms
Forms and AngularJS
Forms and AngularJS Scope and Data Binding
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Scope and Data Binding
Scope and Data Binding Role of a Form
Scope and Data Binding Role of a Form Using Input Text Box
Scope and Data Binding Role of a Form Using Input Text Box Using Radio Buttons
Scope and Data Binding Role of a Form Using Input Text Box Using Radio Buttons Using Checkbox
Scope and Data Binding Role of a Form Using Input Text Box Using Radio Buttons Using Checkbox Using Checkbox - Advanced
Scope and Data Binding Role of a Form Using Input Text Box Using Radio Buttons Using Checkbox Using Checkbox Using Select
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Scope and Data Binding Role of a Form Using Input Text Box Using Radio Buttons Using Checkbox Using Checkbox Using Checkbox - Advanced Using Select Using Select Using Select – Advanced Disabling an Input Reacting to Model Changes in a Declarative Way Example of Using the ng-change Directive 8 - Formatting Data with Filters in AngularJS
Scope and Data Binding Role of a Form Using Input Text Box Using Radio Buttons Using Checkbox Using Checkbox Using Checkbox - Advanced Using Select Using Select Using Select – Advanced Disabling an Input Reacting to Model Changes in a Declarative Way Example of Using the ng-change Directive 8 - Formatting Data with Filters in AngularJS What are AngularJS Filters?

Using Filters in JavaScript

A More Complex Example
The date Filter
The date's format Parameter
Examples of Using the date Filter
The limitTo Filter
Using limitTo Filter
Filter Performance Considerations
9 - AngularJS \$watch Scope Function
The \$watch Function
The \$watch Function Signature
The \$watch Function Details
Cancelling the Watch Action
Example of Using \$watch
Things to be Aware Of
More Things to Be Aware Of
Performance Considerations
Speeding Things Up
10 - Communicating with Web Servers
The \$http AngularJS Service
The Promise Interface
The \$http Service
\$http Function Invocation
Callback Parameters
Request Configuration Properties
Shortcut Methods
Complete List of Shortcut Methods
Using \$http.get()
Working with JSON Response
Using \$http.post()
Combining \$http POST Request Data with URL Parameters
The then() Method of the Promise Object
The Response Object
Making Parallel Web Service Calls
Combining Multiple Promises into One

Using Filters

Wait for the Combined Promise
Setting Up HTTP Request Headers
Caching Responses
Disabling Caching in IE9
Setting the Request Timeout
11 - Custom Directives
What are Directives?
Directive Usage Types
Directive Naming Convention
Defining a Custom Directive
Using the Directive
Scope of a Directive
Isolating Scope
Example Scope Isolation
Using External Template File
Manipulating a DOM Element
The Link Function
Event Handling from a Link Function
Wrapping Other Elements
Accepting a Callback Function
Supplying Callback Function

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