



Angular JS



ANGULARJS

KEY WORDS: -HTML5, CSS3, Java Script, Angular JS

Course Description :-

- 1) This course teaches students how to develop websites, web applications using angular JS.
- 2) Students will develop and test Angular JS applications (typically) using Notepad++ / Eclipse.
- 3) HTML, CSS & Java Script knowledge is pre-requisite to take up this course.

Trainer's profile :-

Trainer is having 10 Years of real time experience. Trainer worked for major banks on web & fat client application development using various java technology frameworks & API's. Trainer is having 6 Years of online Training experience, he deliver to the trainings to prestigious clients, students & consultancies in Abroad.

BASIC LEVEL UI TRAINING (Total Hours :- 12)



Introduction to AngularJS

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

Our first AngularJS application

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

Single Page Applications

- What do we mean by Single Page Application?
- Creating Angular Modules
- Using Angular's Routing Service
 - Routing Basics
 - Accessing URL Data
 - 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 model

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

INTERMEDIATE LEVEL TRAINING (Total Hours :- 8)

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
 - DOM Processing
 - Compilation
 - Linking
- A basic directive
- Directives and scopes
- Creating reusable directives
- Turning directives into components

Testing in Angular

Unit testing

- Working with Dependency Injection
- 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

ADVANCED LEVEL TRAINING (Total Hours :- 15)

Angular JS:



- The Enterprises today
- Separating concerns and testability
- Managing dependencies with dependency injection
- Observing expressions with `$scope.$watch()`
- Integrating external libraries with `$scope.$apply()`

Applying directives to templates

- Binding to HTML with `ng-model`
- Interleaving AngularJS expressions with HTML
- Displaying sets of data with `ng-repeat`
- Piping data into AngularJS filters
 - `date`
 - `currency`
 - `filter`
 - `Orderby`

Working with images and links

- Binding image source URLs with `ng-src`
- Incorporating bound links with `ng-href`

Integrating the bootstrap front-end framework

- Enabling a responsive UI with bootstrap grid
- Linking bootstrap classes with `ng-class`
- `navbar`
- `progress bar`
- `modal`

Validating form input

- Exploiting HTML5 attributes: `required`, `min`, `max`, `pattern`
- Harnessing `$error`, `$dirty`, and `$invalid` in expressions
- Styling with Angular CSS classes: `ng-valid`, `ng-invalid`, `ng-pristine`, `ng-dirty`

Connecting to external REST API data

- Performing CRUD operations with the `$http` service



- get()
- post()
- delete()
- put()
- Retrieving JSON data asynchronously
- Mapping JSON data into JavaScript objects

Testing AngularJS functionality

- Unit testing controllers with Jasmine
- Mocking HTTP with \$httpBackend

Creating custom directives

- Implementing restrictions for elements or attributes
- Specifying template markup or templateUrl
- Isolating directive scope
- Producing one- and two-way data bindings

Animating AngularJS Applications

- Including the ngAnimate module
- Hooking into AngularJS animation triggers
- Writing CSS transitions and animations
- Incorporating drag and drop

Basic level Training covers Basic Angular JS programming constructs, usage of tools.

Intermediate level Training covers Angular JS Forms, Directives, Handling data using Ajax API, Testing angular JS applications.

Advanced level Training covers Enterprise Features, Creating Custom Directives, Templates, etc.,

Total Hours for complete Course: - 35 Hours



Benefits of Online Training:-

- 1) Training improves your skill, but online Training improves your skill and gives a flexible platform to learn.
- 2) A Learner with good internet connection, laptop & head phones with mike will help you to learn from anywhere on the globe.
- 3) If a learner misses a class, he can go through the recording of the session from our platform.

