

Angular JS Course Description

Overview

This training aims at equipping the participants with the necessary knowledge and skills required to build rich internet applications using cutting edge RIA framework from google 'Angular.js'.

Objective

At the end of Angular.JS training course, participants will be able to:

- Build RIA using Angular.js
- Exploit two-way binding offered by Angular.js
- Use dependency injection for better maintainability
- Understand and use various directives offered by Angular.js
- Create custom directives

Suggested Audience

Web developer who wants to build best-of-breed web applications with the simplicity and elegance of JavaScript.

Prerequisites

- Should be familiar with any one web development technologies
- Should have intermediate level exposure in JavaScript

Course Curriculum

1. Introduction to Angular.JS

- How Angular.js is opinionated
- Difference between Backbone.js and Angular.js

2. Angular.js Building Blocks

- Controller Component
- Model Component
- View Component

- Directives
- Filters
- Services
- DI in Angular.js

3. Anatomy of an Angular.js Applications

- Creating Boundaries using ng-app
- Model View Controller
- Templates and Data Binding
- Repeating elements in templates
- Using Expressions, CSS Classes and Styles
- Using Controllers for UI responsibility separation
- Responding to model changes

4. Data Binding in Angular.js

- Understanding Built-in Directives
- Scope resolution
- One way and Two way data binding

5. Using Filters

- Filters Overview
- Understanding Filter Expressions
- Building custom Filters

6. Services

- Services Overview
- Modularity using Services
- Injecting Services

7. Directives

- Directives Overview
- Creating Directives
- The Directive Definition Object
- Compilation and Linking
- Creating Components

8. Communicating with Servers

- Communicating over \$http
- Configuring the requests
- Sending Http Headers
- Caching Responses
- Request and Response Transformation
- Using RESTful Resources
- Communication over WebSockets

9. Unit Testing

- Testing Models using Jasmine
- Test considerations for Directives and Filters
- Using Angular Mocks

10. Modular JavaScript

- Techniques for modularizing JavaScript code

11. Miscellaneous

- Overview of OSS Angular Modules
- Customizing Angular Modules

12. One Project (SPA)