

Syllabus for AngularJS Training

1. Introduction to Single Page Applications (SPA)

What, Why, Challenges

2. Dependency Injection

What, Why, Advantages

3. Introduction to AngularJS

Tour of <https://angularjs.org/>

4. Setup of Environment

nodeJS, grunt, bower, karma

5. AngularJS core concepts

2 way data binding

Angular Modules

Controller, Scopes and Views

 Controllers, scope and rootScope

 scope communication

 on, emit, broadcast

 dependency Injection

Services and Factories

 Introduction to Services

 Built-in Services

 \$http, \$q, \$location, \$log

 Creating custom services

 Demo of built-in services and creating custom services

Filters

 Purpose of filters

 Built-in filters

 currency, date, lowercase, uppercase, number, filter

 Creating custom filters

 Demo of built-in filters and creating custom filters

Forms and Form Validation

- ngModel directive

- Built-in validation

 - required, pattern, minlength, maxlength, min, max

- Presenting validation errors using css classes

- Custom validation

- Demo of forms and form validations

Directives

- Introduction

- Directive name matching

- Creating custom directives

 - Restricting Directive Usage

 - Template expanding directive

 - compile and link functions

 - Isolate Scope

 - DOM interactions

- Demo of built-in directives and custom directives

Routing

- Routing in Single Page Applications

- ngRoute Module and ngView Directive

- Route Registration with \$routeProvider

- Demo of routing

6. Testing

- Why we do unit testing

- Introduction to Jasmine

- Introduction to Karma

- Using the ngMock Module