

# AngularJS Syllabus

## AngularJS Introduction

- Introduction To Client Side Scripting Languages
- Basics of Javascript and jQuery
- Introduction to AngularJS and Its History
- Why should we use AngularJS?

## Execution flow

## Controllers

- Properties, Methods
- Binding controllers with views
- Controller hierarchy
- Sharing data between controllers

## Bootstrapping Angular APPS

- Auto bootstrap
- Custom bootstrap

## Data Binding

- Binding Model Objects
- Model Objects Visibility
- \$scope
- \$rootScope
- Difference between \$scope & \$rootScope
- Using \$emit and \$broadcast
- JSON advantages
- Using JSON in Angularjs
- Use of \$watch, \$digest & \$apply

## Understanding AngularJS Architecture

## Dependency Injection

- What is Dependency Injection?
- Implicit DI
- Inline Array Annotated DI
- \$inject Array Annotated DI

## **Expressions**

- AngularJs Expressions, AngularJS Numbers
- AngularJS Strings, AngularJS Arrays
- AngularJS Objects

## **Directives**

- Power of directives
- Working with built in directives
  - ng-app, ng-init
  - ng-model, ng-repeat
  - ng-class, ng-template
  - ng-include
- Working with custom directives

## **Filters**

- Adding Filters to Expressions, Directives
- Working with built in filters
- Creating custom filters

## **Events**

- ng-click
- Hiding HTML Elements
- ng-disabled
- ng-show, ng-hide

## **Modules**

- Controllers Pollute the Global Namespace
- AngularJS Application Files

## **AngularJS XMLHttpRequest (AJAX)**

- AngularJS \$http

## **AngularJS Forms & Input Validation** **AngularJS Service Types**

- Constants and Values, Factories
- Services, Providers

## **Single Page Applications**

- What is SPA?
- How to work with SPA in angular
- Working with routes
- Static & dynamic routing

## **REST API Calls**

- Overview of REST API
- Use of angular resource module

## **Animations**

- Overview of transitions
- Use of angular animate module

## **Angular with UI Frameworks**

- ui bootstrap
- angular-material