**About Angular JS**

AngularJS is a client-side technology that provides a powerful way of achieving really effective things in a way that embraces and extends HTML, CSS and JavaScript. AngularJS is considered to be most popular framework with essential features, and this can help to make your next application development awesome.

 [**Why AngularJS?**](https://www.softwebsolutions.com/resources/why-angularjs-should-be-used-for-development.html)

AngularJS is an open source JavaScript framework for developing web and mobile apps. It is completely extensible and works well with other libraries. All of its features can be modified or replaced to suit the enterprise’s unique development workflow and feature needs. AngularJS lets you extend HTML vocabulary for the application. The outcome is extraordinarily expressive, readable and very quick to develop. As you can see in the image given below, the technology is now more popular than other JavaScript frameworks such as Node.js, Ember.js and react.js.

**Who can do Angular JS?**

People who want to thrive there career in website development.

**Prerequisites**

* Moderate knowledge of HTML, CSS, and JavaScript.
* Basic Model-View-Controller (MVC) concepts.
* The Document Object Model (DOM)
* JavaScript functions, events, and error handling.

**Program Objectives**

* The basics of Hadoop, Map reduce, Pig Latin (the coding language)
* The basics of Analytics – Concepts, Data preparation – merging, managing missing numbers sampling, Data visualization, Basic statistics
* Lots of practice to ensure that we are very comfortable handling an Analytics project on BigData
* It is imperative that organizations and IT leaders focus on the ever-increasing volume, variety and velocity of information that forms Big Data.
* Hadoop is the core platform for **structuring** BigData, and solves the problem of making it useful for Analytics.
* cheaply **process** large amounts of data, regardless of structure.
* Practical based learning.
* Individual should be able to grab the relevant opportunity.
* Individual will be able to work on the project immediately.

**Program Contents (Angular JS)**

**Angular JS Course Content**

**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 boostrap
* anguar-meterial

**Behavior Driven Development**

* Overview of Nodejs
* installation of karma and jasmin
* working with karma and jasmin