**Angular 8 Training**

**Angular 8 Training Duration : 20 Days**

**Introduction To Web Technologies**

* What is Web
* What are the Requirements to build End to End Web Application?
* What are the Challenges in modern web development?
* What is a Stack?

**Typescript Deep Dive-Type Script Architecture**

* Basic types
* Variable declarations
* Interfaces
* Classes
* Functions
* Generics
* Enums
* Type inference
* Type compatibility
* Advanced types
* Symbols
* Iterators
* Modules
* Namespaces
* Namespaces vs modules
* Module resolution declaration merging
* Decorators

**Introduction To Angular**

* Evolution of client side technologies
* What is Angular JS?
* What is Angular?
* Angular vs Angular JS
* Various versions of angular
* Angular architecture
* MVC and MVW Overview
* SPA Overview
* Angular Versions
* New Features added for Angular8
* IVY
* Angular Universe
* PWI : Progressive WebApps Introduction
* Performance Improvement Overview

**Setting Up Environment For Angular**

* Installing node
* GIT
* Yarn
* Angular

**Angular Architecture**

* Basic building blocks of angular application
* Intro to modules  
  – NgModule meta data  
  – NgModules & components
* NgModules & javascript modules  
  – Angular libraries

**introduction to components**

* Component meta data
* Templates&views
* Template syntax
* Data binding
* User input
* String interpolation
* Component styles
* Angular element
* Angular directives
* Structural Type Directives
* Attribute Type Directives
* HostsListeners
* HostBinding
* Attribute
* Property& Attribute binding
* Property Binding vs Interpolation
* Class binding
* Event binding
* Custom event
* Nested components
* Communication Between components
* Component life cycle
* LifeCycleHooks

**Angular Pipes**

* What is pipe?
* Built-in angular pipes
* Creating custom pipes
* Registering & Integrating pipes

**Angular Services**

* Introduction to service & dependency injection
* Providing service
* Creating custom service
* Consuming &registering service

**Angular Forms**

* Intro to forms in angular
* Various types of forms in angular
* Difference between template driven & reactive forms
* Common foundation
* Form model setup
* Setup in template driven forms
* Data flow in forms
* Form validation
* Dynamic forms
* Validating reactive & template driven
* Form state validation
* Input state validation
* Custom validation

**Observables&Rxjs**

* About observables
* RXJS library
* Use of observable in angular
* Compare RXJS with other techniques

**NG Modules**

* JS modules vs ng modules
* Frequently used ng modules
* Single ton service
* Lazy loading feature modules
* Sharing ng modules
* Ng module API

**Dependency Injection**

* Angular dependency injection
* Hierarchical injection
* DI providers
* DI in action

**Httpclient**

* Set up HTTP client
* Consume serice form onther technologies
* Creating API(REST API)
* Using node js
* Create API in node js
* Handling communalization using MEAN
* Mongo data base
* Express middleware
* Angular client APP
* Node js server side
* Creating and end to end app
* Handling CRUD operations

**Routing & Navigation**

* Router imports
* Router configuration
* Router outlet
* Router links
* Routing Resolvers
* Routing Guards
* Nested Routes
* Active router links
* Router state
* Router events

**Angular Animations**

* Transition & Triggers
* Complex sequences
* Roote transition animations

**Angular Materials**

* Tables
* Forms
* Tabs
* Grid Layout
* List Layout

**Unit Testing In Angular**

* Karma with jasmine
* Create unit tests
* Testing angular app

**Advanced Topics**

* JWT Tokens
* Optimization Concepts
* Lazy Loading Overview
* Angular Universal