



# Curriculum

By ProKTC

# Day 1 ( 3 hrs) Angular Basics

- **Client Side – What & Why**
  - Client Side Overview
  - Single Page vs Roundtrip Application
- **Maintainable Client Code - What & Why**
  - Client side MVC vs Server Side MVC
  - Benefits Of Client Side MVC and Relation between Client Side MVC and SPA
- **AngularJs – What & Why**
  - Is It framework or library?
  - Mapping Angular Js to the definition of a framework
  - MVW framework (where  $W \dashrightarrow \{C,P,VM\}$ ) guidelines
  - Example Direct Dom manipulation without AngularJs / With Angular
  - Features Of Angular Js
- **Angular Bootstrapping - What & Why & How**
  - How angular start doing magic in browser?
  - Automatic bootstrapping
  - Manual bootstrapping
- **Angular Scope - What & Why & How**
  - Scope as a real world examples
  - JavaScript prototypical Inheritance with examples
  - Scope inheritance with examples
  - Mapping with real programming design pattern
- **QUIZ time ( Online test)**

## Day 2 ( 3 hrs) Angular Basics

- **Angular Data binding - What & Why & How**
  - Data binding explained with examples
  - Data binding process in detail with explained algorithm
  - Mapping with real world design pattern
- **Angular Modules - What & Why & How**
  - Angular Module System explained with examples
  - Creating our own module
  - Dependencies between Module
  - Mapping with real world design pattern
- **Angular Routing**
  - Angular routing explained with examples
  - Configuring route providers
  - Routing events
- **Exercise**
  - A real world exercise with covering above concepts.
- **Quiz Time**

## **Day 3 ( 3 hrs) Angular Basics**

- **Angular Dependency Injection- What & Why & How**
  - Explain Angular Dependency with examples
  - Explain 5 Injectable component types (Value, Constants, Services , Providers and Factories)
  - Mapping with real programming design pattern
- **Angular Directives - What & Why & How**
  - Directive explained with examples
  - Directive Compilation process explained
  - Directive Linking Process explained
  - Directive Scope Inheritance explained
  - Explain common directive used .
  - Explain major directive definition object
  - Mapping with real programming design patterns
- **Exercise**
- **Quiz Time**

## Day 4 ( 3 hrs) Angular Basics

- **Angular Server Communication -What & Why & How**
  - Explain Server communication wrt Angular
  - Promise API Distilled
  - Examples
- **Angular Filters**
  - Explain Filters can be used to format the data
  - Creating our own filters
- **Angular Unit Testing**
  - Explain how DI simplifies the life of developer as a point of view of Unit testing
  - Various Unit testing frameworks
  - Mock objects provided by angular
  - A real life unit testing example with Jasmine
- **Exercise**
- **Quiz Time**