

Training TOC: Angular (Intermediate to Advanced)

Pre-requisites Skills: HTML5, CSS, JavaScript, Angular Basics (Components, Data Binding, Pipes, Events, etc..)

Total Duration: 8 days (2 hours per day)

Day#	Topic	Sub Topic
1	Angular Custom Pipes	<ul style="list-style-type: none">• What is CustomPipe?• PipeTransform Interface• Custom Pipe : Scalar, Collection Based• Parameterized Custom Pipes
2	Parent and Child Communication	<ul style="list-style-type: none">• Parent- Child using @Input()• Child - Parent using @Output
3	Custom Directives	<ul style="list-style-type: none">• Overview about Pre-defined directives• Attribute vs Structural directives• Why do we need custom directives?• How to create structural and attribute directives
4	Reactive Forms	<ul style="list-style-type: none">• React Forms• Validation using Reactive Forms• Final data submission• Form Level and Field level validations
5	DI and Custom Services	<ul style="list-style-type: none">• What is Dependency Injection and how does DI work in Angular• What and Why services?• Service providers and injectors• Injector hierarchy in Angular(root, module and component)• How to create and use a service?
6	RxJS in Angular	<ul style="list-style-type: none">• What & Why Observables?• What is RxJs (just overview)• Creating and using an observable• Using RxJs operators

7	Http Client Service	<ul style="list-style-type: none"> • What is HttpClient? • How to register it? • Performing CRUD operations (use json-server as backend) • GET, POST, PUT, DELETE • Create Angular Service which uses HttpClient and calls a REST API • Handling Request Errors • Configuring HTTP URL parameters • Showing how to add a 404 Page
8	Routing in Angular	<ul style="list-style-type: none"> • What & Why routing? • Angular Router features • How to setup routing • Talk about route config file • RouterModule.forRoot() method • Router links and router outlet • Nested routing • Working route parameters • Control navigation with UI elements • Identify the active route • Adding a redirect
	Security for Angular Apps	<ul style="list-style-type: none"> • How to create secured routes? • Route Guards: CanActivate • Programmatic navigation using Router class • AuthGuard Services • Generate tokens after login : using localStorage