**Advanced Angular**

**Time Window:** 2 hours each session and one session per day.

**Day 1,2**

1. Angular 2 to 7 Brief Basics Revisit
2. Walk through New Features.

**Day 3,4**

1. SCSS
   1. Introduction
   2. Environmental Setup
   3. Variables and Operators
   4. Rules and Directive
   5. Control Directives
   6. Mixins
   7. Angular Integration.

**Day 5,6**

1. Working with Reactive Forms Module
2. Angular Material
3. Kindo

**Day 7,8**

1. Angular Elements (Web components)
2. Component Communication
   1. Through Service
   2. Through Parent Component
   3. Passing reference from a component to another

**Day 9,10,11**

1. Advanced Routing
   1. Routing Module Elements
   2. Path Matchers and Strategies
   3. Redirects – Absolute and Relativize
   4. Route Parameters
   5. Component-less Routes
   6. Wild Cards
   7. routerLinkActive binding
   8. Child routes
   9. Navigation Guards
   10. Dedicated Router Module
   11. External route configuration file
   12. Lazy Loading

**Day 12,13**

1. HTTP, Interceptors, Adding custom headers, Services
2. Ngrx Stores / State management

**Day 14**

1. Client Side Storage
2. Angular workspaces
3. Application level Logging
4. Error Logging

**Day 15,16**

1. Custom Library Creation
2. Application Level configuration

**Day 17**

1. Testing Using Jasmine and Karma
2. Mocks, Stubs, Fakes, and Spies

**Day 18,19,20**

1. Angular Testing
   1. TestBed, ComponentFixture, and Debug Element
   2. async, fakeAsync, tick, and inject
   3. Testing a Simple Component/complex component
   4. Detecting Changes
   5. Using External Templates
   6. Testing Components
      1. With Inputs and Outputs
      2. With Router
      3. With Service
   7. Testing a Service in Isolation
   8. Mocking HTTP Calls
   9. Testing Pipes
   10. Code coverage