

## SAP ANALYICS CLOUD SYLLABUS

### Angular Intro and Overview

- Overview of Angular Framework and Architecture
- Intro to Folder structure, default configuration files
- Intro to SASS and HTML, dependencies and devdependencies, webpack.
- Understanding Bootstrapping, building blocks of Angular Application (main.ts, AppModule, NgModules), Decorators in Angular
- Difference and updates of all versions of angular till date
- History, Features of Angular

### NgModules

- Providers, imports, exports, bootstrap, entrycomponents, declarations

### Lazy Route Pattern/Angular Routing, parameterized routing

- Understanding hierarchical implementation of Angular Modules, implementing lazy load routing /loading modules on demand to increase efficiency and speed of application

### Components

- Breaking down Application in several Components and Modules, How to create components
- Sharing Data between Components (input and output)  
@Input Decorator, @Output Decorator, @ViewChild Decorator, @ViewChildren Decorator
- Modal Components

### Lifecycle Hooks

- Understanding Component lifecycle and hook our code in these lifecycle Services and Dependency Injection

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### Services and Dependency Injection

- Understanding Design patterns Singleton, Façade, Observer, DI patterns in Angular
- Communicating with servers using HttpClient

## **Authentication and Authorization**

- Using Guards, Interceptors, HttpInterceptor, CanActivate, CanLoad

## **Observable, RxJS and Promises**

- Understanding Reactive programming in Brief. RxJS Operators, Subject, Subscription

## **Angular Forms**

- Template driven Forms and Reactive Forms, Validations

## **Pipes**

- Understanding Pure, Impure , Custom, Parameterized, angular, async pipes.

## **Directives**

- Understanding Structural, Attribute, class, style and custom directives, Hostlistener

## **Databinding**

- String Interpolation, One-way, two-way, data, attribute, class, style, event, property bindings

## **Angular Material and Flexlayout**

- Performing Practicals on Material UI and FlexLayout

## **Open source Libraries**

- Using libraries created/contributed by angular community in application.

## **Practical on Features of Angular**

- Drag Drop Component, Material Tabs, etc.