ANGULAR COURSE 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 serveral 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.