

ANGULAR 10 SYLLABUS

1. Angular

- 1.1. What is Angular
- 1.2. Difference between Angular 2.0 vs 7.0
- 1.3. Angular CLI and Troubleshooting
- 1.4. Node JavaScript Introduction
- 1.5. Setup a Project
- 1.6. Setup Node js with angular
- 1.7. Typescript Introduction
- 1.8. What is bootstrap
- 1.9. Create Your First App

2. Modules and Components

- 2.1. What is Component in Angular js
- 2.2. What is Module in Angular js
- 2.3. Create and Start Component
- 2.4. Why Components are important.
- 2.5. How we create a component
- 2.6. Create Component using CLI
- 2.7. What is nesting Component
- 2.8. What is Component Template
- 2.9. Component Styles and Selectors

3. Data Binding in Angular

- 3.1. What is Data binding
- 3.2. Splitting Application into Component
- 3.3. String Interpolation
- 3.4. What is Property Binding

- 3.5. Difference between Property Binding and String Interpolation
- 3.6. Binding with Custom Events.
- 3.7. What are Binding Properties and Events
- 3.8. Two Way binding
- 3.9. Combine Forms with Data binding
- 3.10. Custom Properties
- 3.11. What is Encapsulation
- 3.12. How to Use Local Reference in TemplatesTemplate Access and DOM
- 3.13. Component Lifecycle
- 3.14. What is Hooks in Angular js
- 3.15. Access Template with Hooks

4. Directives in Angular js

- 4.1. What is Directives
- 4.2. Using Output Data Conditionally
- 4.3. What is ng if and else condition
- 4.4. Output List
- 4.5. Styling Element with ngStyle
- 4.6. How to apply css class dynamically with angular js
- 4.7. How to Create Basic Attribute Directive
- 4.8. What is Renderer
- 4.9. What is HostBinding and HostListener
- 4.10. Directive Properties
- 4.11. ngSwitch

5. Dependency Injection in Angular js

- 5.1. What is Dependency Injection
- 5.2. What is Services

- 5.3. Logging Service and Injection
- 5.4. Create Data Service
- 5.5. Instance of Services
- 5.6. Insert Service into Services
- 5.7. How to use service in Cross Component
- 5.8. What is Hierarchical Injector

6. Routing

- 6.1. What is Routing?
- 6.2. Loading of Routes
- 6.3. Navigation and its path
- 6.4. Styling of Router Links
- 6.5. Relative Path Navigation
- 6.6. Define parameter in Routing
- 6.7. Fetch Routing Parameter
- 6.8. Observables
- 6.9. Passing & Retrieving Parameters & Fragments
- 6.10. Nested RoutingConfig Query Parameters
- 6.11. Redirection Routes
- 6.12. Route configuration
- 6.13. Route Guards
- 6.14. Protect Routes with canActivate
- 6.15. Navigation Controlling
- 6.16. Static Data in Route
- 6.17. Location Strategies

7. Forms

- 7.1. What is Forms and how do we handle it?
- 7.2. Reactive Approach
- 7.3. Template Driven
- 7.4. Create Template Driven Forms
- 7.5. What is Registering Control
- 7.6. Use and Submit of Forms
- 7.7. Access of Forms
- 7.8. How to add validation in use input
- 7.9. Build-In Validation
- 7.10. HTML5 Validation
- 7.11. Output Validation and Error Messages
- 7.12. Two Way Binding
- 7.13. Grouping
- 7.14. Radio Button Handling
- 7.15. Patch Forms Values
- 7.16. Resetting Templates form Forms

8. Reactive Forms

- 8.1. What is Reactive Forms
- 8.2. Create Reactive form through code
- 8.3. Syncing of HTML and Form
- 8.4. Adding Validation
- 8.5. Sumit Forms
- 8.6. Grouping
- 8.7. Form Control Arrays
- 8.8. Custom Validators
- 8.9. Relative Forms
- 8.10. Async validation
- 8.11. Value changes and Reacting to status

9. Pipes

- 9.1. What is Pipes in Angular
- 9.2. How we use pipes
- 9.3. Chaining Multiple pipes in angular
- 9.4. parameterizing a pipe
- 9.5. Filter Pipe
- 9.6. Impure & Pure Pipe
- 9.7. async Pipes

10. HTTP Requests

- 10.1. What is HTTP Requests
- 10.2. How it work
- 10.3. How to send requests
- 10.4. Adjusting Request Headers
- 10.5. How to handle Get and Put Request
- 10.6. Catching HTTP Error
- 10.7. async with HTTP Requests

11. Authentication

- 11.1. What is Authentication
- 11.2. How Authentication Work
- 11.3. Introduction to JSON Web Tokens
- 11.4. Creating Page and Route
- 11.5. Firebase SDK
- 11.6. User Signing UP and In
- 11.7. Sending Token & Requiring
- 11.8. Authentication Status
- 11.9. How to add Logout button
- 11.10. Protection & Redirection of Route

12. Angular Modules

- 12.1. What is idea behind Modules
- 12.2. What is feature Modules and how we create it
- 12.3. What is App Modules
- 12.4. Registering Routes in Feature Modules
- 12.5. What is Shared Module and how we create
- 12.6. Create the Auth Feature module
- 12.7. What is Lazy LoadingHow to Modules & Services works
- 12.8. What is Core Module
- 12.9. How to Create Basic Core Module
- 12.10. AoT Compilation with CLI

13. HTTP Client

- 13.1. What is HttpClient and how we unlock it
- 13.2. Request Configuration with Response
- 13.3. Request Events
- 13.4. Set up Headers
- 13.5. HTTP Parameters
- 13.6. Progress
- 13.7. What is Interceptors
- 13.8. Modify Request in Interceptors
- 13.9. Multiple Interceptors

14. Animations

- 14.1. What is Angular Animations
- 14.2. Triggers and State
- 14.3. Switch between States
- 14.4. Basic and Advanced Transitions
- 14.5. What is void state
- 14.6. Key frames in animation
- 14.7. Grouping
- 14.8. Animation Callback

15. Unit Testing

- 15.1. What is Unit Testing
- 15.2. How to Analyze CLI Testing Setup
- 15.3. Running Test with CLI
- 15.4. Components and dependencies
- 15.5. Async Tasks
- 15.6. Adding Component with tests
- 15.7. Difference between Isolated and Non-isolated Tests