

ANGULAR 10 SYLLABUS

- **Angular**

- What is Angular
- Difference between Angular 2.0 vs 7.0
- Angular CLI and Troubleshooting
- Node JavaScript Introduction
- Setup a Project
- Setup Node js with angular
- Typescript Introduction
- What is bootstrap
- Create Your First App

- **Modules and Components**

- What is Component in Angularjs
- What is Module in Angular js
- Create and Start Component
- Why Components are important.
- How we create a component
- Create Component using CLI
- What is nesting Component
- What is Component Template
- Component Styles and Selectors

- **Data Binding in Angular**

- What is Data binding
- Splitting Application into Component
- String Interpolation
- What is Property Binding
- Difference between Property Binding and String Interpolation
- Binding with Custom Events.
- What are Binding Properties and Events
- Two Way binding
- Combine Forms with Data binding
- Custom Properties
- What is Encapsulation
- How to Use Local Reference in Templates Template Access and DOM

- Component Lifecycle
- What is Hooks in Angular js
- Access Template with Hooks

- **Directives in Angular js**
 - What is Directives
 - Using Output Data Conditionally
 - What is ng if and else condition
 - Output List
 - Styling Element with ngStyle
 - How to apply css class dynamically with angular js
 - How to Create Basic Attribute Directive
 - What is Renderer
 - What is HostBinding and HostListener
 - Directive Properties
 - ngSwitch

- **Dependency Injection in Angular js**
 - What is Dependency Injection
 - What is Services
 - Logging Service and Injection
 - Create Data Service
 - Instance of Services
 - Insert Service into Services
 - How to use service in Cross Component
 - What is Hierarchical Injector

- **Routing**
 - What is Routing?
 - Loading of Routes
 - Navigation and its path
 - Styling of Router Links
 - Relative Path Navigation
 - Define parameter in Routing
 - Fetch Routing Parameter
 - Observables
 - Passing & Retrieving Parameters & Fragments
 - Nested Routing Configuration Query Parameters
 - Redirection Routes

- Route configuration
- Route Guards
- Protect Routes with canActivate
- Navigation Controlling
- Static Data in Route
- Location Strategies

- **Forms**

- What is Forms and how do we handle it?
- Reactive Approach
- Template Driven
- Create Template Driven Forms
- What is Registering Control
- Use and Submit of Forms
- Access of Forms
- How to add validation in use input
- Build-In Validation
- HTML5 Validation
- Output Validation and Error Messages
- Two Way Binding
- Grouping
- Radio Button Handling
- Patch Forms Values
- Resetting Templates form Forms

- **Reactive Forms**

- What is Reactive Forms
- Create Reactive form through code
- Syncing of HTML and Form
- Adding Validation
- Sumit Forms
- Grouping
- Form Control Arrays
- Custom Validators
- Relative Forms
- Async validation
- Value changes and Reacting to status

- **Pipes**
 - What is Pipes in Angular
 - How we use pipes
 - Chaining Multiple pipes in angular
 - parameterizing a pipe
 - Filter Pipe
 - Impure & Pure Pipe
 - async Pipes

- **HTTP Requests**
 - What is HTTP Requests
 - How it work
 - How to send requests
 - Adjusting Request Headers
 - How to handle Get and Put Request
 - Catching HTTP Error
 - async with HTTP Requests

- **Authentication**
 - What is Authentication
 - How Authentication Work
 - Introduction to JSON Web Tokens
 - Creating Page and Route
 - Firebase SDK
 - User Signing UP and In
 - Sending Token & Requiring
 - Authentication Status
 - How to add Logout button
 - Protection & Redirection of Route

- **Angular Modules**
 - What is idea behind Modules
 - What is feature Modules and how we create it
 - What is App Modules
 - Registering Routes in Feature Modules
 - What is Shared Module and how we create
 - Create the Auth Feature module
 - What is Lazy LoadingHow to Modules & Services works
 - What is Core Module
 - How to Create Basic Core Module
 - AoT Compilation with CLI

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- **HTTP Client**
 - What is HttpClient and how we unlock it
 - Request Configuration with Response
 - Request Events
 - Set up Headers
 - HTTP Parameters
 - Progress
 - What is Interceptors
 - Modify Request in Interceptors
 - Multiple Interceptors
- **Animations**
 - What is Angular Animations
 - Triggers and State
 - Switch between States
 - Basic and Advanced Transitions
 - What is void state
 - Key frames in animation
 - Grouping
 - Animation Callback
- **Unit Testing**
 - What is Unit Testing
 - How to Analyze CLI Testing Setup
 - Running Test with CLI
 - Components and dependencies
 - Async Tasks
 - Adding Component with tests
 - Difference between Isolated and Non-isolated Tests

Performing CRUD Operations as in Realtime Angular Application.

- Create and ASP.NET MVC Web API Application
- Add Angular Seed, download files and Configure Project
- Setup Project for Entity Framework Code First Model
- Add Web API Controller to perform CRUD Operations using EF.
- Create Angular Feature and Routing Modules
- Configure Angular to use HTTP and Json Services.
- Program Angular Modules to performing CRUD Operations.

Angular CLI and MVC Application

- Create an Angular CLI Project

- Build CLI Project
- Integrate build output with MVC Application

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