ANGULAR SYLLABUS

Hi Folks,

Oranium Tech introducing some amazing content on Angular Js. Looking for the best platform to learn about developing professional Single-page Web applications? Then, join AngularJS Training in Chennai at Oranium Tech to master the skills required to build dynamic Single-page and Frontend Web Applications under the mentorship of our real-time professionals. At Oranium Tech, we train complete hands-on with the recent version of Angular 10 and Angular 11.

1) UNDERSTANDING JAVASCRIPT

- Introduction to Javascript
- Control Structures
- Loops in Javascript
- Operators in Javascript
- Handling functions
- Objects and Functions in Javascript
- Javascript DOM
- Javascript Events and Event Handling

2) GETTING INTO THE ANGULAR WORLD

- Angular Advantages
- Opportunities for Angular
- Angular Versions
- AngularJS to Angular 6
- Semantic Versioning

3) INTRODUCTION TO TYPESCRIPT

- Understanding TypeScript
- Basic Types
- Working with Variables
- Working with Arrays
- Working with Classes

- Working with Objects
- Working with Interfaces
- Working with Constructors
- Type Definitions
- Compiling TypeScript
- Linting

4) ES2015 PRIMER

- Understanding Let and Const
- Working with Template Strings
- Mastering Lambda Functions
- Working with Generics
- Working with Modules

5) ENVIRONMENT SETUP

- Node / NPM
- Polyfills
- Babels
- TypeScript
- Module Bundler (Webpack)
- Code Linting
- Test Setup
- Application File Structure
- AngularCLI
- Code Editors

6) MODULES

- Why and when to use Modules
- Understanding NgModule
- Working with Declarations in Modules
- Using Providers
- Managing Imports
- How to use Bootstrapping
- The Core Module
- Shared Modules

7) COMPONENTS

- Introduction to Components

- Working with Component Architecture Patterns
- Decorator Metadata
- State & Behaviour in Angular
- Inputs and Outputs

8) TEMPLATES

- Inline vs External
- Mastering Template Expressions
- Data Bindings
- Data Bindings Syntax
- Working with Data & Event Bindings
- Working with Built-in Structural Directives
- Working with Built-in Attribute Directives

9) CUSTOM DIRECTIVES

- Directives Overview
- Types of Directive
- Create your own Attribute Directive
- Writing Attribute Directive Code
- Respond to User-Initiated Events
- Pass values into the directive with an @Input data binding
- Binding to an @Input property
- Bind to an @Inputalias
- Write a harness to try it
- Create your own Structural Directive
- NgIf case study
- Inside *ngFor
- Inside NgSwitch directives
- The <ng-template>
- Working with <ng-container>
- TemplateRef and ViewContainerRef

10)PIPES

- Using pipes
- Built-in pipes
- Parameterizing a pipe
- Chaining pipes
- Custom pipes

- The Pipe Transform interface
- Power Boost Calculator
- Pipes and change detection
- Pure and impure pipes
- Next steps

11) SERVICES & DEPENDENCY INJECTION

- Getting familiar with Services
- Building a Service
- Getting familiar with Dependency Injection
- Working with Injectors
- Working with Providers
- Registering Providers with real-time examples

12) LIFECYCLE HOOKS & CHANGE DETECTION

- Understanding Component LifeCycle
- Using ngOnInit
- All lifecycle Hooks
- Understanding Change Detection
- Working with Zone.js

13) ROUTING & ADVANCED ROUTING

- The Component Router
- Defining Routes
- Working with Navigation
- Understanding Route Params
- Child Routes
- Route Guards
- Route Resolves

14) MASTERING TEMPLATE-DRIVEN FORMS & MODEL-DRIVEN FORMS

- Introduction to forms
- Overview of Template-driven forms
- Understanding Validations
- Introduction to 'Reactive' forms
- Form Group & Form Control Class
- Validators Class

15) ASYNCHRONOUS OPERATIONS & ADVANCED HTTP

- Introduction to Async
- Promises
- Working with Observables
- EventEmitter
- Async Pipes
- Handling HTTP Request / Response
- Headers & Request Settings
- Providing HTTP

16) COMPONENT STYLING

- Introduction to Angular Styling
- Using Component Styling
- Style Scope
- Shadow DOM
- Loading Component Styles

17) WORKING WITH ANIMATIONS

- Introduction to Animations
- Animations Setup
- Understanding States & Transitions
- Entering and Leaving from States
- Animatable Units
- Automatic property calculation
- Understanding Animation Timing
- Multistep Animation using Keyframes

18) TESTING ANGULAR APPLICATIONS

- Introduction to Testing
- Unit Testing
- E2E Testing & Protractor
- Setup Jasmine Framework
- Component Test Basics
- Component Test Scenarios
- Karma

19) SECURITY & INTERNATIONALIZATION

- Importance of Security
- Security in Angular
- Sanitize the Dangerous Values
- Trusting Values
- bypassSecurityTrustHtml
- bypassSecurityTrustScript
- bypassSecurityTrustStyle
- bypassSecurityTrustUrl
- bypassSecurityTrustResourceUrl
- Cross-site Request Forgery
- Pre-compiled and runtime
- Using ng2-Translate

20) PERFORMANCE, OPTIMIZATION & DEPLOYMENT

- Change Detection Strategy
- Running outside the Zone
- Production Mode
- Understanding Web Workers
- Precompiling (AoT)
- Lazy Loading
- Deployment Best Practices

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All The Best

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