



Curriculum Of Angular

Duration: 6 Weeks

MODULE 1: INTRODUCTION TO TYPESCRIPT

Why Use Typescript

- Basic Types
- Classes & Interfaces
- Type Definitions
- Compiling Typescript

MODULE 2: GITHUB

- Real-Time environmental setup with GitHub

MODULE 3: ENVIRONMENT SETUP

- Node/ NPM
- Angular CLI
- Application File Structure
- Code Editors

MODULE 4: INTRODUCTION TO ANGULAR

- What is Angular?
- Advantages of Angular
- Disadvantages of Angular
- Key Features of Angular
- Comparison between Angular & other frameworks

MODULE 5: MODULES

- Why use Modules
- NgModule
- Declarations
- Providers
- Imports
- Bootstrapping
- The Core Module
- Shared Modules

MODULE 6: COMPONENTS

- Introduction to Components
- Components Architecture Pattern

- Decorator Metadata
- State & Behavior

MODULE 7: TEMPLATES

- Inline vs External
- Template Expressions
- Data Bindings
- *ngIf else, *ngFor and *ngSwitch
- Built-in Structural Directives
- Built-in Attribute Directives

MODULE 8: CUSTOM DIRECTIVES

- Create your own Structural Directives
- Create your own Attribute Directives

MODULE 9: PIPES

- Built-in Pipes
- Custom Pipes

MODULE 10: SERVICES

- Introduction to services
- Building a Service

MODULE 11: DEPENDENCY INJECTION

- Introduction to dependency Injection
- Injectors & Providers
- Registering Providers

MODULE 12: LIFECYCLE HOOKS

- Component Lifecycle
- All Lifecycle hooks

MODULE 13: ROUTING

- The component router
- Defining Router
- Navigation
- Route Params
- Child Routes



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MODULE 14: ADVANCED ROUTING

- Route Guard

MODULE 15: TEMPLATE-DRIVEN FORMS

- Introduction to forms
- Template-driven forms
- Validation

MODULE 16: MODEL-DRIVEN FORMS

- Introduction to Reactive Forms
Form group & form control
- Validators
- Custom Validation

MODULE 17: ASYNCHRONOUS OPERATIONS

- Introduction to Async
- Observables
- Observables vs. Promise
- HTTP Request / Response

MODULE 18: COMMUNICATION BETWEEN COMPONENTS

- @Input()
- @Output()
- @View Child()
- Shared Service

MODULE 19: SERVER-SIDE RENDERING

- Introduction to server-side Rendering
- Angular Universal

MODULE 20: ANGULAR TESTING

- Introduction to testing
- Unit Testing
- Lazy Loading
- Angular Material
- PrimeNG Implementation

MODULE 21: THIRD-PARTY NPM PACKAGE

- Social Login Authentication
- Cookies, Local Storage, Session Storage
- Angular File Upload
- Angular Pagination
- JWT Token

IMPLEMENTATION OF MINI APPLICATION

DEPLOYMENT OF ANGULAR APPLICATION