

TYPESCRIPT COURSE CONTENT

SECTION 1 – TYPESCRIPT INTRODUCTION

- What is TypeScript?
- Features of TypeScript.
- How to compile TypeScript into JS?
- What is Transpilation?

SECTION 2 – NODE INTRODUCTION

- What is Node?
- Node Environment setups.
- A Brief Node Introduction.
- What is Node Modules?
- What are the Types of Node Modules available?
- What is Local & Global Module?

SECTION 3 – TYPESCRIPT ENVIRONMENT SETUPS

- Install TypeScript Engine in Node.
- Execute the 1st TypeScript code.
- What is watcher?
- Introduction of **ts-node** NPM.

SECTION 4 – VARIABLES IN TS

- Difference between Static & Dynamic type checking.
- How to Declare & Define Variables in TS?
- What is *any* in TS?
- Difference between let & var.
- Template string introduction.

SECTION 5 – DATATYPES IN TS

- Brief Introduction of below types,
 - String
 - Number
 - Boolean
 - Array
 - Object
 - Tuple
 - Enum

- Any
- Void
- Never
- Null
- Undefined

SECTION 6 – DATATYPES IN PARAMETER

- Difference between JS parameter & TS Parameter.
- Let vs var vs const
- Passing Parameters to the functions.
- How to pass optional parameter?
- What is Default Parameter?
- How to use default parameter before required parameter?
- Rest Parameter overview.

SECTION 7 – FEATURES IN TS.

- Arrow functions.
- Where to use Arrow functions?
- Destructuring an Array.
- Destructuring and Object.

SECTION 8 – OOPS IN TYPESCRIPT

- What is Class?
- What is Class definition?
- What is Object?
- How to Create Object?
- Brief introduction about,
 - Property
 - Method
 - Constructor
- What is Inheritance?
- Different types of Inheritance in TS.
- Access modifiers in TS.
- Readonly in TS.
- Static Property & Methods in TS.
- Interface in TypeScript.



CREDO SYSTEMZ

ANGULAR 7 TRAINING COURSE CONTENT

SECTION 1 : INTRODUCTION TO ANGULAR

- What is Angular?
- Difference between framework & Library?
- History of Angular and its versions.
- Why Angular?
- Features of Angular.
- What is Single Page Application?
- Difference between SPA & Traditional Application.
- What is MVC?
- How MVC works in Client & Server sides?

SECTION 2 : ANGULAR 7 ENVIRONMENT SETUPS

- What is Angular CLI?
- Purpose of the CLI.
- Angular CLI installation.
- Create a Basic Angular App by using CLI.
- Executing the Angular Application in the browser.
- How an Angular app Bootstrapping?
- Brief explanation about the structure of the Angular App.

SECTION 3: MAIN BUILDING BLOCKS OF ANGULAR

- An Overview of the below Building blocks of Angular
 - Modules
 - Components
 - Templates
 - Metadata
 - Data binding
 - Directives
 - Services
 - Dependency Injection.
- What is Module & its importance?
- What is Root Module and Child Module?

SECTION 4: COMPONENTS IN ANGULAR 7

- What is Component?
- How to create a Component manually and through CLI?
- What is Component decorator and its Meta data?
- Component's Structure overview.
- Component Lifecycle Hooks.
- Components Interactions overview.
- How to pass Data from Parent to Child & Child to Parent?

SECTION 5: DATA BINDINGS AND EVENT BINDINGS IN ANGULAR 7

- What is Data Binding?
- What is Two-way Data Binding?
- String Interpolation.
- Style Binding, Class Binding.
- Overview of Event Binding.
- Element reference and \$event service in Angular.
- Event Filtering

SECTION 6: DIRECTIVES & CUSTOM DIRECTIVES IN ANGULAR 7

- What is Directives?
- What are the Different kind of Directives available in Angular?
- Difference between Structural & Attribute Directives.
- Overview of All Structural & Attribute Directives.
- Difference between *ngIf* & *hidden* directives.
- How to create Custom Attribute Directive?
- How to create Custom Structural Directive?

SECTION 7: PIPES IN ANGULAR 7

- What is Pipe in Angular?
- Purpose of the Pipes.
- Difference between Pipes & Directives.
- Detailed explanation of the below Pipes,
 - Lowercase
 - Uppercase
 - Titlecase
 - Slice
 - Json
 - Number
 - Percent
 - Currency
 - Date
- What is Pure Pipe & Impure Pipe?
- How to create Custom Pipes?

SECTION 8: EVENT EMITTER AND OTHER SPECIAL DIRECTIVES

- What is Event Emitter?
- When to use Event Emitter?
- How to transfer data with Event Emitter?
- How to create Custom Events and Trigger?
- View Encapsulation Overview.
- What is *ng-content* and its purpose?
- *ng-container* Directive overview.

SECTION 9: TEMPLATE DRIVEN FORM IN ANGULAR

- What is Template Driven Form?

- Purpose of Form.
- How to setup a form in Angular?
- What is form control and how to set it?
- What is **ngForm**?
- How to Access form values?
- What are the form states available in Angular?
- Form Validations.
- HTML5 Validation vs Angular form Validation.
- How to set default values in form fields?
- Setup One-way data binding in Angular.

SECTION 10: SERVICE AND DEPENDENCY INJECTION IN ANGULAR.

- What is Service in Angular?
- Create & configure Service in Angular.
- How to do Dependency Injection in Angular?
- What is Singleton Object?
- Multiple DI in single Class.

SECTION 11: ROUTING IN ANGULAR 7

- What is Routing?
- How Routing makes our App into SPA?
- How to configure Routing in an Application?
- Load our components dynamically based on url path.
- How to create Child Route?
- Navigating to other links programmatically.
- Passing Parameter to the Routes.
- Static Route vs Dynamic Route.
- Fetching Route Params.

SECTION 12. HTTP & OBSERVABLE IN ANGULAR

- How to establish HTTP request to Server side.
- How HTTP Mechanism works?
- What are the methods available in HTTP?
- What is Observable & Observer?
- What are the call back methods available in Observable?
- How to create a Custom Observable?
- What is **next()**, **error()** and **complete()** ?

SECTION 13: AUTHORIZATION IN ANGULAR

- Client side Authorization vs Server side Authorization.
- How to create Guard in Angular?
- Setup Route Guard.
- Server side Authorization by using **JWT Token**.
- HTTP interceptors.

SECTION 14: FILE UPLOAD IN ANGULAR

- Angular form setups for File Upload.

- Server side setups for Angular.
- Multer NPM in node.
- How to use Multer NPM as middleware in Node?
- Attach the Multer middleware in server-side routing.

SECTION 15: REAL-TIME PROJECT IN ANGULAR

- Applying all the above in a real-time Shopping Cart Application.

Contact Info:



+91 9884412301 | +91 9884312236



Know more about [Angular 7](#)



info@credosystemz.com

New # 30, Old # 16A, Third Main Road,
Rajalakshmi Nagar, Velachery, Chennai
(Opp. to MuruganKalyanaMandapam)

[BOOK A FREE DEMO](#)

CREDO SYSTEMZ