

Angular JS Course Content – 9Globes Technologies

Introduction of Web Technology

- Introduction to JS
- What is Angular?
- Why to use angular among N number of frameworks available.
- How to use angular

First Steps

- Angular Invocation
- Core modules
- Angular Invocation
- Compilation
- Execution cycle

Exploring Data Types & Functions

- Objects
- Strings
- Numbers
- Auto Casting
- Prototype
- Function
- Self-Invoicing Functions
- Array
- Booleans
- Un defined

Control Structures: Logical Expressions

- If statements
- Else and elseif statements
- Logical operators
- Switch statements

Control Structures: Loops

- For loops
- For each loop
- Continue
- Break

User-Defined Functions

- Defining functions
- Function arguments
- Returning values from a function
- Multiple return values
- Scope and global variables

Debugging

- Developer's console
- Warnings and errors
- Debugging and troubleshooting

HTML compilation and Angular Compilation

- Compilation phase
- Angular Compilation

Actual Angular Topics

- Modules
- Controllers
- Dependency Injection
- Service
- Filters
- Data Binding
- Scopes
- Template
- Directives
- Routers
- Providers

About Angular5 Training

Angular 5 training by real-time experts with real time examples, this Angular5 Training covers all the topics in depth with complete overview of AngularJS,2 and 4

Course Syllabus:

Section 1:

Getting Started with Angular 5:

- Course Introduction
- What is Angular
- Angular vs Angular 2 vs Angular 4 vs Angular 5
- CLI Deep Dive
- Project Setup and First App
- The course Structure
- What is TypeScript
- A basic setup of Bootstrap for Styling

Section 2:

The Basics of Angular 5

- Module Introduction
- How an Angular App gets loaded and started
- Components
- Creating new Component
- Understanding the role of App Module and Component Declaration
- Understanding Component Templates
- Understanding Component Styles
- Understanding Component Selector

Section 3:

Databinding & Directive Concepts

- Module Introduction
- What is Databinding
- String Interpolation
- Property Binding
- Property Binding vs String Interpolation
- Event Binding

- Bindable Properties and Events
- Passing and Using Data using Event Binding
- Two-Way Binding
- Forms Module and Two-Way Binding
- Understanding Directives
- Using ngIf and Else Conditions
- Using ngStyle for Styling Angular App
- Applying css Class dynamically with ngClass
- Displaying Lists using ngFor

Section 4:

Advanced Component and Databinding

- Module Introduction
- Dividing the App into multiple components
- Property and Event Binding deep dive
- Binding to custom properties
- Binding to custom events
- View Encapsulation
- Understanding Local Reference inside Templates
- Getting Access to the templates using @ViewChild.
- Exploring Component Life Cycle
- Life cycle hooks deep dive

Section 5:

Advance Directive Concepts

- Creating a basic custom attribute directive
- Exploring Renderer to create a Directive
- Understanding HostListener and HostBinding
- Binding to Directive's Properties
- Building Structural Directives
- Exploring ngSwitch

Section 6:

Understanding Services and Implementing Dependency Injection

- Module Introduction
- Why Services are required
- Creating a Service
- Injecting the service into components
- Understanding Dependency Hierarchical Injector
- Injecting a Service into other services

Section 7:

Routing in Angular 5

- Module Introduction
- Understanding the need of a Router
- Setting Up and implementing Routes
- Navigating to Router Links
- Understanding Router Paths
- Styling Active Router Links
- Understanding Navigation Paths
- Styling Router Links
- Navigating Dynamically
- Using Relative Paths

- Passing Parameters to Routes and fetching route parameters
- Fetching route parameters in a Reactive Way
- Passing query parameters and fragments
- Understanding Nested Routes
- Redirecting and Wildcard routes
- Redirection Path Matching
- Outsourcing the Route Configuration
- Introduction to Guards
- Understanding can activate
- Understanding canActivateChild
- Understanding can deactivate
- Passing Static Data to a Route
- Understanding Resolve Guard
- Exploring Location Strategies

Section 8:

Observables in Angular 5

- Module Introduction
- Understanding built-in Angular Observable
- Creating Observables
- Using a Custom observable
- Unsubscribe
- Using Subjects to pass and Listen to Data
- Understanding Observable Operators

Section 9:

Forms in Angular 5

- Module Introduction
- Need of Angular's help
- Template Driven vs Reactive Approach

Template Driven Approach

- TD: Creating the Form and Registering the controls
- TD: Submitting and Using the form
- TD: Understanding Form's State
- TD: Accessing Form using @ViewChild
- TD: Adding Validation to user input
- TD: Built-in Validator and using HTML 5 Validation
- TD: Understanding Form State
- TD: Outputting Validation Error Messages
- TD: Set Default Value with ng Model Property Binding
- TD: Using ngmodel and two-way binding
- TD: Grouping Form Controls
- TD: Using Form Data

Reactive Form Approach

- Reactive: Creating a Form in Code
- Reactive: Submitting the form
- Reactive: Adding Validation
- Reactive: Getting Access to Controls
- Reactive: Grouping Controls
- Reactive: Form Array
- Reactive: Custom Validators

- Reactive: Exploring Error Codes
- Reactive: Custom Async Validator

Section 10:

Exploring Pipes in Angular 5

- Module Introduction
- Using Pipes
- Parameterizing Pipes
- Chaining Multiple Pipes
- Creating a custom Pipe
- Pure & Impure Pipes
- Understanding the Async Pipe

Section 11:

Making HTTP Requests in Angular 5

- Introduction & how HTTP request works in SPAs
- Sending POST Request
- Adjusting request headers
- Sending GET requests
- Sending PUT Requests
- Response with observable operators
- Catching HTTP errors
- Using the async pipe with HTTP Requests

Section 12:

Authentication & Route Protection in Angular Apps

- Module Introduction
- How Authentication works in SPAs
- Introduction to JWT
- Creating a Signup Page and Route
- Setting up Firebase SDK
- Signing users up
- Signing users in
- Token introduction
- Sending a token
- Route protection and redirection example.

Section 13:

Typescript Introduction

- Module Introduction
- Using types
- Classes
- Interface
- Generics
- Wrap up & Modules
- Deep dive into typescripts.

Section 14:

Project:

This section will cover a course project where we will try to implement all topics we covered in each session. The course project will run after completion of each module.