AngularJS Course Syllabus

80% Practical training & 20% Theory

Experts Available 24x7 for your queries

35 to 45 Hrs. of training

Trainer Profile

Our Trainers provide complete freedom to the students, to explore the subject and learn based on real-time examples. Our trainers help the candidates in completing their projects and even prepare them for interview questions and answers. Candidates are free to ask any questions at any time.

- More than **7+ Years** of Experience
- Expert level Subject Knowledge and fully up-to-date on real-world industry applications
- Trainers have experienced on multiple real-time projects in their Industries

Since everyone wants to make their websites most beautiful and Faster. At the Same time UI Developers facing lot of problems in multiple page application while loading speed is very slow. To Overcome this issue Open Source Angularjs group and google come with Angular frameworks for Single page Application. Get Hands-on Angularjs training with placements at Besant technologies

Angular 10 / 11 / 12 Training

Create web-based Single Page Applications using Angular 10 / 11 / 12 Versions. Learn how to make a static web page more interactive thus enhancing its user experience.

- Introduction
- Dynamic Binding
- Directives
- Controllers
- Scope
- Services
- Factories
- Expressions
- Form Validations
- Filters
- Custom Directives
- Routing
- Making an API Call
- Modules
- Dependency Injection

Before Started with Angular 5 Topics we will give basic Overview on Angular 2/4 Versions. Learn depth knowledge in Angular Versions 2,4,5,6 with the help of Real Time Experts. We listed below the latest version of Angular 5 Topics.

Angular 5 Training

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 AppModule 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 switch

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 can activate child
- 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 ngModel 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: FormArray
- 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 the topics we covered in each session. The course project will run after the completion of each module.

Angular 9 Syllabus

TypeScript v.3

- **Introduction to TypeScript**
  - Overview of TypeScript
  - Why TypeScript?
  - JavaScript vs TypeScript
- **Installation of tools**
  - Installing Brackets – an IDE
  - Installing TypeScript using npm
- **Datatypes in TypeScript**
  - Primitive Datatypes
  - User-defined Datatypes
  - Tuples and Unions
  - Variables and Operators
- **Decision Makers and Loops**
  - if, if-else, switch statements

- o for, while loops
- o forEach in TypeScript

- **Functions in TypeScript**
  - o Defining and Calling a Function
  - o Returning functions
  - o Parameterized functions
  - o Arrow functions

- **Inbuilt methods in TypeScript**
  - o String methods
  - o Array methods
  - o Other inbuilt methods

- **Oops in TypeScript**
  - o Introduction to Classes and Objects
  - o Interfaces
  - o Inheritance

- **Winding up with TypeScript**
  - o Revising the TypeScript Concepts
  - o Bridging TypeScript to Angular

Angular 9

- **Introduction to Angular**
  - o What is Angular?
  - o Features of Angular
  - o Angular versions
  - o AngularJS vs Angular 2+
  - o What's new in **Angular 9**

- **Installation of tools**
  - o Installing the latest version of nodeJS
  - o Installing Angular 9 using a node package manager (npm)
  - o Installing an IDE like Visual studio code

- **Getting started with our First Angular Project**
  - o List of commands for creating, running and building a project
  - o Create a new Angular project
  - o The folder structure of an Angular Project

- o Linking bootstrap with Angular
- o Linking icons, fonts with the Projects

- **Angular Components and Modules**
  - o What are the components?
  - o Structure of a component
  - o Default vs custom components
  - o Creating components manually
  - o Creating components using npm
  - o Calling a component
  - o Nesting components
  - o Execution flow of Angular applications
  - o Component Interactions
  - o Introduction to Modules

- **Navigation using Routers**
  - o Introduction to Angular routings
  - o Nested routes
  - o Relative path vs Absolute paths
  - o Lazy loading modules
  - o Pre-loading modules
  - o Preventing unauthorized access using protected routes

- **Angular Templates and Directives**
  - o Angular elements
  - o Advance concepts of components
  - o Angular Lifecycle hooks
  - o Structural directives
  - o Attribute directives
  - o Custom directives

- **Data Binding**
  - o Introduction to data binding
  - o String Interpolation
  - o Property Binding
  - o Event Binding
  - o Two-way data binding

- **Services and Dependency injection**
  - o What are Services?
  - o Need for Services
  - o Creating a Service
  - o Achieving inter-component data exchange
  - o Dependency injection in Angular
  - o Creating an injectable service in a class
  - o Injecting services
- **Angular Animations**
  - o Introduction to Angular Animations
  - o Creating a Basic Animation
  - o Example for Advanced Animations
  - o Creating Re-usable Angular Animations
- **Angular Pipes and Maps**
  - o Introduction to Pipes
  - o Importing and using pipes
  - o Parameterizing pipes
  - o Chaining pipes
  - o Custom pipes
  - o Creating a Filter pipe
- **Angular Forms**
  - o Introduction to Angular Forms
  - o Template-driven forms
  - o Reactive forms
  - o TDD vs Reactive forms
  - o Adding validations to forms
  - o Displaying error messages
- **Angular Observables and RxJS**
  - o Introduction to Observables
  - o Using observables to pass data
  - o Type-ahead suggestions using Observables
  - o Introduction to RxJS library
- **Server Interactions using HTTP**

- Introduction to Http Client Services
- HTTP get vs post
- Requesting and sending data to the server
- Sending get Request
- Sending put Request
- Adjusting Request Headers

- **Deployment of the Application**
  - Building the Application
  - Steps to host the application on some server
  - Hosting the Application

- **Building a Real-time Website for an Imaginary University**
  - Creating the Project Setup
  - Linking BootStrap
  - Creating modules and grouping Components
  - Implementing Lazy Loading and adding Routings
  - Adding necessary Material Components
  - Completing the contents
  - Hosting the Website

- **Bonus**
  - Introduction to Angular Material
  - Working with any of three External Plugins

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