



A2NACADEMY

Career Transformation Skill Development

Angular course

You Look Better as a Confident Professional.

Join our Specially designed course & Become A Professional Angular Developer.

Angular Course by Google Partner Company & 10+ Year Experienced Professionals

Duration: 8 Weeks (Weekdays) [2 Months]

Class Duration: 1hr to 90 Min

Course Fee: 15,000 INR

No of Assignments: 10 Assignment

No of Projects: 2

No of Live Projects: 1

Key Features of our Course:

- Understand the job profile
- Learn how IT industry works
- Get Corporate Level Exposure
- Industrial Training & Customer Interactions during the project development
- Mentor Session from Google Certified Professionals
- Learn in Google Partner Company
- Real World Projects
- Profile Building
- Collaborative learning with other team members
- Job Assistance and Growth Hacking
- Certification from Google Partner Company
- Recorded Sessions after the class
- How to Manage and Update Job Profile
- Industry Best Practice
- Understand Stages of Real Time Projects
- Connecting with job network
- Salary negotiation skill management
- Publishing Live Profile on Company Website for Hiring Managers.

Job Roles

- Web developer
- Web app developer
- Angular developer
- Front end developer
- Front end web developer
- JavaScript developer

[Learn beyond the course and become an experienced developer](#)

Our course is ideal for beginners, professionals and Non-IT techies who are keenly looking for a better career option in python.

In this digitalized world, Angular has got the prominent role to make things handy to everyone. So, we have decided to bring enthusiasts and future techies into the angular technology through industry best experts.

After completing this course, you will gain immense knowledge and confidence to work with expertise in the IT industry and can easily crack interviews from beginners to expertise level.

This extensive Angular online course is created to help you master important Angular programming concepts such as HTML, CSS, Angular UI, Typescript, Node Package Manager, RXJS, and .ng-Table.. This Angular course is live, instructor-led & helps you master various Angular related tools and frameworks. Enroll now.

This course is combination of multiple technologies to gain extensive knowledge in Angular development.

1. Introduction to Angular
 - Introduction to JS
 - What is Angular?
 - What do we need Angular for?
 - Why should we use Angular?
 - How do we use Angular?
2. Basics of Angular
 - Setting up the Development Environment
 - Angular Application Architecture
 - First Angular App
 - Angular Invocation
 - Core modules
 - Angular Invocation
 - Compilation
 - Execution cycle
 - Modules
 - Controllers
 - Dependency Injection
 - Service
 - Filters
 - Data Binding
 - Scopes
 - Template
 - Directives

- Routers
- Providers
- 3. Data Types, Functions and Logical expressions
 - Objects
 - Strings
 - Numbers
 - Auto Casting
 - Prototype
 - Function
 - Self Invoking Functions
 - Array
 - Booleans
 - Un defined
 - If statements
 - Else and elseif statements
 - Logical operators
 - Switch statements
 - For loops
 - For each loops
 - Continue
 - Break
 - Defining functions
 - Function arguments
 - Returning values from a function
 - Multiple return values
 - Scope and global variables
- 4. Typescript
 - Overview of Typescript
 - Overview of TypeScript
 - Why TypeScript?
 - JavaScript vs TypeScript
 - Module Introduction and Introduction to TypeScript
 - Setting up the environment to write TypeScript
 - Variable declarations (var, let, and const)
 - Types - Primitives
 - Types - Reference and Special Types
 - Operators - Spread and Backticks
 - Operators - Destructure and Rest
 - Classes
 - Introduction to Classes
 - Inheritance
 - Access Modifiers
 - Getters and Setters
 - Read only and static

- Interface
 - Introduction to Interfaces
 - Optional properties and methods
 - Strict structural contract
 - Extending interface
 - Implementing interface
 - Introduction to Modules
 - Import / Export
 - Default
- Arrow
- Functions
- Modules
- Fetch
- Async or await
- 5. Decorators
 - Introduction to Decorators
 - Angular Modules and the @NgModule Decorator
 - Declarations
 - Imports and Exports
 - providers, bootstrap, and entry
 - Components
 - Angular Application Bootstrap Mechanis
- 6. Components
 - Angular Components and the @Component Decorator
 - Creating an Angular Component using the Angular CLI and on StackBlitz
 - Component Decorator Metadata
 - Component configuration object
 - Custom components
 - Component with templates
 - Inline
 - External
 - Component with Styles
 - Inline
 - External
 - Angular Elements
 - Creating components manually
 - Creating components using npm
 - Calling a component
 - Nesting components
 - Execution flow of Angular applications
 - Component Interactions
 - View Encapsulation - Emulated, ShadowDom, None

- Data Binding - String Interpolation - {{ }}
- Property Binding - []
- Event Binding - ()
- @Input and @Output Property Decorators
- Two-way Data Binding - [(ngModel)]
- Attribute Binding - [attr.]
- Class Binding - [class.]
- Style Bindings - [style.]
- Introduction to Lifecycle Hooks in Angular
- Using Lifecycle Hooks in Angular
- View Queries - View Child, View Children, Content Child, Content Children
- Change Detection Mechanism in Angular. ZoneJS, NgZones

7. Directives

- Introduction to Section
- Introduction to Directives
- Built-in directives
- Structural directive
- NgIf
- NgFor
- NgSwitch
- Attribute directive
- NgClass
- NgStyle
- NgModel
- Built in Structural Directives
- Built in Attribute Directives
- Building custom Attribute Directives
- Building Custom Structural Directives

8. Pipes

- Introduction to Pipes in Angular
- Using Built In Pipes
- Creating Custom Pipes in Angular
- Pure and Impure Pipes in Angular
- Importing and using pipes
- Parameterizing pipes
- Chaining pipes
- Creating a Filter pipe
- Decorators Revisited
- Building Custom Decorators in Angular
- Building a Custom Lifecycle Hook Class Logger Decorator
- Building Custom Property Decorator in Angular

9. Forms in Angular

- Introduction to forms

- Types of Form Building Strategies in Angular
- Creating Long Bootstrap forms quickly using VS Code using Emmet
- Adding FormControl(s) to a Template Driven form using the ngModel directive
- Getting the JavaScript Object Representation of a form using ngForm directive
- Disabling the Submit Button on a Form using form's \$invalid flag
- Getting the JavaScript Object Representation of a form in TypeScript Class
- Adding Checkbox, Radio Buttons and Select List to your Template Driven Form
- Creating Subsections in the form using NgModelGroup directive
- Steps to implement a Reactive form in Angular Quickly creating a Bootstrap form for our Reactive form using Emmet
- Creating a Reactive form in the TypeScript class & connecting it to the template
- Adding form Validations to a Reactive Form
- Dynamically Adding or Removing FormControl(s) or FormGroup(s) using FormArray(s)
- Adding Synchronous Custom Validations to your Reactive Form
- Adding Async Custom Validations to your Reactive Form
- Resetting the value of a form
- Form and field validation
- Validation check with ng-pristine, ng-dirty, ng-touched, ng-untouched, ng-valid, ng-invalid
- Show and hide validation error messages
- Form submission with ngSubmit
- Reactive/ Model drive forms
- Reactive Forms Module
- Form Group, Form Control classes
- Form Builder for easy form building
- Setting form model using setValue and patchValue
- Use Form Array to build repeated form controls or form groups

10. Templating

- HTML as template
- Data binding

11. Dependency Injection

- Introduction
- Why DI
- @Injectable decorator
- Custom service development
- Registering the service with NgModule using providers key
- Provider Types
- Class

- Factory
- Value
- DI as a Pattern, DI as a Framework and Types of Providers
- Hierarchical Dependency Injection
- Introduction to Services in Angular
- GET data from a Rest API using HttpClient
- CRUD Operations using HttpClient, HttpParams and HttpHeaders
- Observables and Operators in Observables - Map, Retry, Catch
- Behavior Subject and Sharing Data using Behavior Subjects

12. Routing

- Introduction to Routing
- Implementing Routing in an Angular App
- @angular/router library
- Configure routes
- RouterModule.forRoot and RouterModule.forChild
- RouterOutlet, RouterLink, RouterLinkActive
- Nested Routes
- Parametrized routes
- Route guards
- Creating a User List. Setting the stage for Child Routing
- Abstracting the user link to a separate component
- Implementing Child Routes
- Path Match and Route Types
- Introduction to Route Guards in Angular
- CanActivate and CanActivateChild Guards in Angular
- CanDeactivate Guard in Angular
- Prefetching Data for a Component using Resolve

13. Using third party libraries

- Introduction to the Section
- Creating an Angular CLI Project with SCSS as a base style
- Introducing Material Design Bootstrap into your Angular CLI Project
- Adding a Navbar in your header
- Adding Material Design Buttons
- Adding Cards
- Using Material Design Dropdowns and Form Inputs
- Introducing Angular Material into your Angular CLI Project on the top of MDB
- Adding Radio Buttons, Slide Toggle, Slider, Progress Bar and Spinner
- Introduction to Firebase
- Creating an App using the Firebase Console
- Setting up your Angular CLI Project to support Firebase
- Interacting with Firebase Realtime Database using methods on AngularFireList

- Adding and Reading Data from Realtime Database in Firebase
 - Updating and Deleting Data from Realtime Database in Firebase
14. Rxjs Primer
- Introduction to Rxjs
 - Why RxJs
 - Observable interface
 - Streams
 - Operators
 - Subscription
 - Subject
 - Schedulers
15. Interfacing with backend services & APIs using HTTP client
- Setup installing the module
 - Making a request for JSON data
 - Type checking the response
 - Error handling
 - Sending data to the server
 - Making a POST request
 - Configuring other parts of the request
 - HTTP get vs post
 - Requesting and sending data to the server
 - Sending get Request
 - Sending put Request
 - Adjusting Request Headers
16. Level up with Angular
- Creating libraries
 - Angular Material Essentials
 - Lazy Loading
 - Customizing the Angular CLI using the Builder API
 - Server Side Rendering with Angular Universal
 - Working with Service Workers
 - Building a Progressive Web App
17. Testing
- Introduction to testing
 - Testing in Typescript
 - Testing Component
 - Testing Service/Provider
 - Testing Pipe
18. Deployment
- Manually
 - Using the Angular CLI with Ahead-Of-Time (AOT) Compilation and Tree-Shaking (removing unused library code)
 - Deployment Platforms for Angular Apps
19. Real time project

****On completion of each topic we will be giving assignments on daily basis****