



KIDS & TEENS FREELANCING TRAINING INSTITUTE

Angular JS Training Course Outline

Module 1: Introduction to Angular JS

- What is Angular JS and why it's used for building dynamic web apps
 - Real-life example: A modern e-commerce website with dynamic content (Angular JS in action)
 - Setting up Angular JS on your machine using Angular CLI
 - The architecture of Angular JS: Modules, Components, and Directives
 - Activity: Create your first Angular app with a simple greeting message
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Module 2: Angular Components and Templates

- What are components in Angular and how they control the UI
 - Real-life example: A music player with play, pause, and volume controls (Angular components)
 - Understanding Angular templates and how they render data
 - Binding data in templates using `{{ }}` interpolation
 - Activity: Build a simple component with template rendering
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Module 3: Directives and Data Binding

- What are directives in Angular JS and how they modify the DOM
 - Real-life example: A shopping list where items are displayed dynamically (directives in action)
 - Understanding data binding: one-way and two-way data binding
 - Using built-in directives like `ngIf`, `ngFor`, and `ngModel`
 - Activity: Create a list app that adds/removes items using `ngFor` and `ngIf`
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Module 4: Angular Services and Dependency Injection

- What are services in Angular and how they help share data across components
 - Real-life example: A weather app that gets weather data from a service (services)
 - How Dependency Injection makes components reusable and decoupled
 - Using services for HTTP requests, state management, and logic
 - Activity: Create a service that fetches data from an API and displays it
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Module 5: Routing in Angular

- What is Angular Routing and how it enables navigation between pages
 - Real-life example: An online store where you navigate from the homepage to product details (routing)
 - Setting up routes, using `RouterModule`, and passing data with routes
 - Activity: Build a simple multi-page app with Angular routing
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Module 6: Forms in Angular

- Understanding template-driven forms and reactive forms in Angular
 - Real-life example: A user registration form that validates input fields (forms)
 - Using `ngModel`, `FormGroup`, and `FormControl` for form control
 - Validating forms and showing error messages
 - Activity: Create a user login form with validation and error handling
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Module 7: Angular Pipes and Observables

- What are pipes in Angular and how they transform data in templates
 - Real-life example: A price filter that formats currency values (pipes)
 - Understanding Observables and how they handle asynchronous operations
 - Using RxJS operators to manage data streams in Angular
 - Activity: Create an app that filters data with custom pipes and handles async data with Observables
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Module 8: Final Project – Build a Complete Angular App

- Plan and build a fully functional Angular app using components, services, routing, and forms
- Implement dynamic data binding, routing, and form validation
- Test your app for performance and functionality

- Activity: Present your final Angular project, explaining key features and Angular concepts
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Bonus Materials

- Angular JS cheat sheet with component, directive, and service syntax
- Links to Angular libraries and plugins for enhanced functionality
- Resources for learning advanced Angular features
- Interactive coding challenges and quizzes
- Certificate of Completion for Angular JS Basics