

# INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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## Angular

### Introduction to Angular

- Overview of Angular framework
- Evolution from AngularJS to Angular
- Setting up Angular Development Environment (Node.js, npm, Angular CLI)
- Angular Architecture: Modules, Components, Templates, Services

### TypeScript Fundamentals

- Introduction to TypeScript
- TypeScript Basics: Types, Interfaces, Classes
- TypeScript Compilation and Configuration

### Angular Components and Templates

- Creating Components: @Component decorator, Component Lifecycle
- Templates and Data Binding: Interpolation, Property binding, Event binding
- Directives: Built-in directives (ngIf, ngFor, ngSwitch), Custom directives

## **Angular Forms**

- Template-driven Forms: FormsModule, ngModel, Validation
- Reactive Forms: ReactiveFormsModule, FormGroup, FormBuilder, Validation
- Form Validation and Error Handling

## **Dependency Injection and Services**

- Dependency Injection (DI) in Angular
- Creating and Injecting Services
- HTTP Client: HttpClientModule, Making HTTP requests, Error handling

## **Routing and Navigation**

- Angular Router Configuration
- Route Parameters and Query Parameters
- Nested Routes and Child Routes
- Guards: CanActivate, CanDeactivate, Resolve guards

## **Angular Modules and Lazy Loading**

- Angular Modules: NgModule, Feature Modules
- Lazy Loading Modules: loadChildren syntax
- Shared Modules and Services

## **Advanced Components and Directives**

- Component Communication: @Input, @Output, EventEmitter
- ViewChild and ContentChild
- Structural Directives: ngTemplateOutlet, ng-container

## **RxJS and Observables**

- Introduction to Reactive Programming
- RxJS Library: Observables, Operators (map, filter, etc.), Subjects
- Handling Asynchronous Operations with RxJS

## **State Management**

- Introduction to NgRx (optional)
- Managing Application State with NgRx Store, Actions, Reducers, Effects

## **Angular Material (optional)**

- Introduction to Angular Material
- Using Material Components: Buttons, Cards, Dialogs, Snackbars, etc.
- Theming Angular Material

## **Testing Angular Applications**

- Unit Testing with Jasmine and Karma
- Testing Components, Services, and HTTP requests
- E2E Testing with Protractor (optional)

## **Performance Optimization**

- Best Practices for Angular Performance
- Lazy Loading Optimization
- Production Builds and Bundle Optimization

## **Angular Security**

- Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF) protection
- Authentication and Authorization

- Secure Coding Practices

## **Deployment and Continuous Integration**

- Deploying Angular Apps: Build process, Deployment strategies
- CI/CD Integration with Angular (e.g., Jenkins, GitLab CI)

## **Angular Best Practices and Patterns**

- Coding Standards and Best Practices
- Angular Design Patterns: Singleton, Facade, Decorator, etc.
- Error Handling and Logging Strategies

## **Real-world Project Development**

- Building a complete Angular application from scratch
- Project Planning, Implementation, and Documentation
- Code Reviews and Collaboration

## **Career Development and Job Preparation**

- Resume building and LinkedIn profile enhancement
- Job search strategies and interview preparation tips
- Freelancing and Remote work opportunities