

Angular JS Course Content

1. Introduction to AngularJS

- Overview of AngularJS
- History and Evolution
- Key features and benefits of AngularJS
- Setting up the development environment

2. AngularJS Architecture

- MVC (Model-View-Controller) architecture
- Scope, Controller, and View
- Understanding Directives, Modules, and Dependency Injection

3. Directives in AngularJS

- Built-in directives (ng-app, ng-model, ng-repeat, ng-show, ng-hide)
- Creating custom directives
- Two-way data binding with ng-model

4. Controllers and Scope

- Role of Controllers in AngularJS
- Scope hierarchy and inheritance
- Working with the \$scope object
- Controller as syntax

5. Filters in AngularJS

- Built-in filters (currency, date, limitTo, orderBy, etc.)
- Creating custom filters
- Chaining filters
- Filter expressions in views

6. Forms and Validation

- Handling forms using AngularJS
- Validating user input
- Built-in validation directives
- Custom validation
- Error handling and form submission

7. Services in AngularJS

- Introduction to services

- Using built-in services like \$http, \$location, \$timeout
- Creating custom services
- Dependency Injection in AngularJS

8. Routing and Single Page Applications (SPAs)

- Setting up routing with ngRoute
- Configuring routes and views
- Nested views and dynamic views
- Implementing Single Page Applications (SPA)

9. Promises and Asynchronous Programming

- Introduction to Promises in AngularJS
- Working with \$q service
- Handling HTTP requests asynchronously using \$http

10. Modules and Dependency Injection

- Creating and using AngularJS modules
- Understanding the role of Dependency Injection
- Managing dependencies in AngularJS applications

11. Working with RESTful APIs

- Overview of REST APIs
- Consuming REST APIs with \$http
- Handling GET, POST, PUT, DELETE requests
- JSON data handling

12. AngularJS Animations

- Introduction to animations in AngularJS
- Using ngAnimate module
- Applying animations to directives like ng-show, ng-hide, etc.

13. Testing in AngularJS

- Introduction to Unit Testing
- Testing controllers, services, and directives
- Using Karma and Jasmine for AngularJS testing