

ANGULAR JS SYLLABUS

Module 1: Introduction to AngularJS

- What is AngularJS and why use it
- Features of AngularJS
- SPA (Single Page Application) concept
- MVC architecture in AngularJS
- Setting up AngularJS environment
- Including AngularJS via CDN

Module 2: Expressions & Directives

- AngularJS expressions
- Built-in directives (ng-app, ng-model, ng-bind)
- Data binding concepts
- Custom directives basics

Module 3: Controllers

- What is a controller
- Creating controllers
- Scope object (\$scope)
- Controller methods and variables
- Best practices

Module 4: Modules

- Creating AngularJS modules
- Organizing application structure
- Dependency injection basics
- Module dependencies

Module 5: Data Binding

- Two-way data binding
- One-way data binding
- Real-time updates
- Binding expressions

Module 6: Forms & Validation

- AngularJS forms
- Input controls (ng-model)
- Form validation
- Custom validation
- Error handling

Module 7: Filters

- Built-in filters (uppercase, lowercase, currency, date)
- Custom filters
- Filtering data in views

Module 8: Services & Dependency Injection

- Introduction to services
- Built-in services (\$http, \$timeout, \$filter)
- Creating custom services
- Dependency injection concepts

Module 9: HTTP & API Integration

- Using \$http service
- GET, POST requests
- Handling API responses
- Error handling

Module 10: Routing

- Introduction to routing
- ngRoute module
- Configuring routes
- Multiple views
- Navigation between pages

Module 11: Advanced Directives

- Creating custom directives
- Directive scope
- DOM manipulation
- Reusable components

Module 12: Animations

- Introduction to animations
- Using ngAnimate
- Basic UI animations

Module 13: Testing Basics

- Introduction to testing
- Unit testing with Jasmine
- Testing controllers and services

Module 14: Performance Optimization

- Best practices
- Reducing watchers
- Optimizing digest cycle

Module 15: Deployment

- Preparing AngularJS app for production
- Minification and bundling
- Hosting applications

Module 16: Real-World Projects

- Todo Application
- CRUD Application with API
- Single Page Website
- Dashboard UI