



# Angular JS

## 60 Hours

### (Basic + Intermediate+Advanced)

 Programming & Development  
techupgrad

#### **Introduction:**

- HTML Basics
- HTML Elements
- HTML Attributes
- HTML Styles
- HTML Forms
- HTML Form Elements
- HTML Input Element Types
- HTML Input Attributes
- HTML File Paths Script tag and its uses
- HTML & XHTML CSS
- Introduction CSS Syntax CSS Selectors CSS Styling

#### **Java Script :**

- Introduction to JavaScript
- JavaScript Statements
- JavaScript Keywords

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- JavaScript Functions
  - JavaScript Programs
  - JavaScript Operators
  - Function Parameters
  - Function Return Values
  - JavaScript Data Types
  - Primitive Types

### **Java Script & Objects:**

- Object Overview
- Object Oriented Programming
- Object creation
- Adding Properties to Objects
- Adding Methods to Objects
- JavaScript Conditional Statements
- JavaScript Loops & Iteration
- Enumerating properties
- Call-backs
- JSON

### **Angular JS Basics:**

- Introduction to AngularJS
- MVC Architecture
- Conceptual Overview
- Setting up the Environment
- First Application
- Understanding ng attributes

### **Angular Expressions:**

- All about Angular expressions
  - How to use expressions
  - Angular expressions v/s JavaScript expressions
  - Number and String Expressions
  - Object Binding and Expressions
  - Working with Arrays
  - Forgiving Behaviour
  - Understanding Data binding
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### **Filters:**

- Built-In Filters
- Uppercase and Lowercase Filters
- Currency and Number Formatting Filters
- Order By Filter
- Filter Filter
- Creating Custom Filter

### **Directives:**

- Introduction to Directives
- Directive lifecycle
- Using AngularJS built-in directives
- Binding controls to data
- Matching directives
- Creating a custom directive
- Conditional Directives
- Styles Directives
- Mouse and Keyboard Events Directives

### **Controllers:**

- Understanding Controllers
  - Programming Controllers & \$scope object
  - Adding Behaviour to a Scope Object
  - Passing Parameters to the Methods
  - Having Array as members in Controller Scope.
  - Nested Controllers and Scope Inheritance.
  - Multiple Controllers and their scopes
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### **Angular JS Forms:**

- Using Simple Form
- Working with Select and Options
- Input Validations
- Using CSS classes
- Form Events
- Custom Model update triggers
- Custom Validations

### **Angular JS Modules:**

- Why Module?
- Module Loading and Dependencies
- Recommended Setup of Application
- Creation vs Retrieval.

### **Angular JS Scope:**

- What is scope
- Scope lifecycle
- Two way data binding
- Scope inheritance
- Scope & controllers
- Scope & directives
- \$apply and \$watch
- Rootscope
- Scope broadcasting
- Scope events

### **Angular JS Dependency Injection & Services:**

- What is Dependency Injection
  - Using Dependency Injection
  - What are services
  - Creating services Factory, Service & Provider
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- Using AngularJS built in services

### **Angular JS & Ajax:**

- \$http Service
- \$q Service
- Ajax Impl using \$http and \$q Service

### **Angular JS Routing & Single Page Application(SPA):**

- What is SPA
- Pros & Cons of SPA
- Installing the ngRoute module
- Configure routes
- Passing parameters
- Changing location
- Resolving promises
- Create a Single Page Application

### **Angular JS Animations:**

- ngAnimate Module
- CSS transforms
- CSS transitions
- Applying animations
- Directives supporting animation

### **Project:**

- Using AngularJS and ASP.NET MVC Web API performing CRUD Operations.
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