



Angular



About Course

Angular is a platform and framework for building single-page client applications using HTML and TypeScript. Angular is written in TypeScript. It implements core and optional functionality as a set of TypeScript libraries that you import into your applications.

With Angular, you're taking advantage of a platform that can scale from single-developer projects to enterprise-level applications. Angular is designed to make updating as straightforward as possible, so take advantage of the latest developments with a minimum of effort.

ANGULAR

CURRICULUM

1 INTRODUCTION

Course Objectives

2 JAVASCRIPT (ES-5 and ES-6)

Basic JavaScript

DOM and BOM

Intervals and Objects

Prototype ,Hoisting and Closure

Let , Const , Arrow , Class and Inheritance

Map, Filter , Reduce , Template Literals

ForEach, for-in, for-of loop.

3 Typescript

Why Typescript

Basic Types

Class and Interfaces

Modules

Typescript

4 GITHUB

Real-time environmental setup

5 INTRODUCTION TO ANGULAR

What is Angular

What is SPA

Comparison between different versions

Advantages and Disadvantages

Key features

6 ENVIRONMENTAL SETUP

Node /NPM

Angular CLI

Setup Project

Directory Structure

Code Editors

How Angular Application Boot

ENVIRONMENTAL SETUP

7 MODULES

What is Module

Decorator

NgModule

Core Module
Bootstrapping
Shared Modules

8 COMPONENTS

Introduction to Components
Component Architecture Patterns
Metadata
State and Behaviors

9 TEMPLATES

Template Expression or Interpolation
Data Binding (Event, Property, Two Way)
*ngIf, *ngFor, *ngSwitch
Built-in Structural and Attributes Directive

10 PIPES

Built-in Pipes
Custom Pipes

11 Routing

Routes, RouterModule, routerLink
Child Routing

Params
Guards

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CUSTOM DIRECTIVES

Structured Directives
Attribute Directives

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VALIDATIONS

Template Driven
Reactive Form
Custom Validators

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ASYNCHRONOUS OPERATIONS

Observable vs Promise
Network Call
HTTP Request | Response

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SERVICES

Introduction to Services
Building a Service
Dependency Injections
Injectors and Providers



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LIFECYCLE HOOKS

Component LifeCycle
All LifeCycle Hooks

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LOCAL DATA STORAGE

Local Storage
Session Storage
Cookies

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COMMUNICATION BETWEEN COMPONENTS

@Input()
@Output() with EventEmitter
@ViewChild()
Shared Service
Subject

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SERVER-SIDE RENDERING ()

Introduction to Server-Side Rendering
Angular Universal

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Angular Testing

Introduction to Testing

Unit Testing with Karma and Jasmine

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LAZY LOADING UI COMPONENTS

Angular Material
PrimeNG

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Third Party Modules

Social Login
Pagination
Search
Filter
JWT Token
File Upload
Many More

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Angular Application Deployment


Build Application
Deploy in Heroku



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