ANGULAR CURRICULUM

Introduction
- Installing NodeJS
- Installing TypeScript – Creating Angular App
- Installing Angular-CLI Package
- Uninstalling Angular CLI & Verifying Cache
- Installing an Editor
- Understanding How an Angular Application Works
- Creating a Simple Angular Application
- Understanding Angular Project Structure
- Understanding Package.json / Package-lock.json
- Global vs Local Packages
- Understanding Angular.json
- Build Process & Execution Flow
- Running the Production Build

Components & Directives
- Creating Angular Components (Standard, Inline, CodeBehind, CLI)
- Nesting Components
- Built-In Directives: ngIf, ngSwitch, ngFor, ng-container
- Using ngFor with HTML Form Elements
- Class & Style Bindings
- Data Binding: One-way, Two-way, Attribute Binding

Pipes
- Working with Built-in Pipes
- Changing String Case, Formatting Numbers/Currency/Date
- JSON Serialization, Key/Value Formatting, Pluralization

REST API Integration
- Overview of REST API
- fetch for All & Single Records
- Using ViewChild with Bootstrap Cards

Services & Component Communication
- Creating & Using Services
- Parent-Child Data Sharing
- @Input, @Output, ngOnChanges, Life Cycle Hooks
- Component Life Cycle: OnInit, DoCheck, OnDestroy, etc.
- Communication via BehaviorSubject

Forms & Validations

- Model-Based Forms: Setup, Controls (Textbox, Checkbox, Radio, ListBox, Dropdown)
- Template-Driven Forms: Validations, Events, Cascading Dropdowns
- JSON Server Setup for Mock APIs

Custom Directives & Pipes

- Creating Custom Attribute & Structural Directives
- Dynamic Component Loading
- Creating Custom Pipes

UI Features

- Pagination, Sorting, Filtering
- Sub Totals, Running Totals
- Reporting Page
- Expand/Collapse: Single, Multi-level, Master-Detail
- ListView with Grid Layout

Bulk Operations

- Insert, Update, Delete – Bulk & Single Record
- Export Data: TXT, PNG, JSON, PDF, CSV, Excel

Routing

- Routing, Parameterized Routes, Nested Routes
- Query Strings

Backend Integration (ASP.NET Core)

- Creating REST API with ASP.NET Core
- SQL Server – CRUD Operations (GET, POST, PUT, DELETE)
- Consuming REST API from Angular
- Creating Domain Models and Services
- Full CRUD Flow in Angular using API

Thank you

Thank You for Going Through Angular Curriculum
We hope this guide has provided a clear and structured learning path to strengthen your skills in Angular.

📌 **NEXT STEPS**
- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

📞 **Need Help or Guidance?**
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