

## ANGULAR SYLLABUS

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### Introduction

- Introduction to TypeScript
- A Conceptual Overview of Angular 2
- Installing Git and Node
- Creating Your First Component
- Using the Angular CLI

### Creating and Communicating Between Components

- Creating Your First Data-bound Component
- Using External Templates
- Communicating with Child Components Using @Input
- Communicating with Parent Components Using @Output
- Using Template Variables to Interact with Child Components
- Styling Components
- Exploring Angular's CSS Encapsulation

### Exploring the New Template Syntax

- Interpolation, Property Bindings, and Expressions
- Event Bindings and Statements
- Repeating Data with ngFor
- Handling Null Values with the Safe-Navigation Operator
- Hiding and Showing Content with ngIf
- Hiding Content with the [Hidden] Binding
- Hiding and Showing Content with ngSwitch
- Styling Components with ngClass
- Styling Components with ngStyle

### Creating Reusable Services

- Introduction
- Why We Need Services and Dependency Injection
- Creating Your First Service

### **Routing and Navigating Pages**

- Adding Multiple Pages to Your App
- Adding Your First Route
- Accessing Route Parameters
- Linking to Routes
- Navigating from Code

### **Collecting Data with Forms and Validation**

- Introduction
- Using Models for Type Safety
- Creating Your First Template-based Form
- Using the Data from Your Template-based Form
- Validating Template-based Form
- Validating Reactive Forms

### **Pipes**

- Using Built-in Pipes
- Creating a Custom Pipe
- Sorting and Filtering Overview
- Creating a Filtering Display
- Filtering Data

### **Dependency Injection**

- Using Third Party Global Services – The Problem
- Angular Dependency Injection Lookup
- Using the @Inject Decorator
- The useClass Provider

### **Communicating with the Server Using HTTP, Observables, and Rx**

- Moving Data Storage to the Server
- Listening to Resolved Data Changes
- Using Querystring Parameters
- Integrating Authentication with the Server
- Persisting Authentication Status Across Page Refreshes
- Saving User Data to the Server