

Course 55266A: Building Web Apps with Angular and Typescript

1. Introduction to Angular

- a. Evolution in Web App Development
- b. Angular Core and Modules
- c. Typescript, Dart, Plain Old JavaScript

2. Strongly Typed JavaScript with TypeScript

- a. Writing Application Scale JavaScript
- b. Type -Safe JavaScript Development with TypeScript
- c. Implementing Types, Classes and Inheritance
- d. Namespaces and Modules

3. Core Concepts

- a. Components
- b. Modules
- c. Services
- d. Tools

4. Data Binding

- a. The importance of Binding
- b. Component to View
- c. Structural Directives
- d. Local template variables
- e. Value conversion
- f. View to Component

5. Components

- a. Using Multiple Components
- b. Input and Output
- c. View Child and Content Child
- d. Event Emitter
- e. Directive Life Cycle

6. Attribute Directives

- a. What are Attribute Directives
- b. Built in Attribute Directives
- c. Custom Attribute Directive

7. Structural Directives

- a. What are Structural Directives?
- b. Built in Structural Directives
- c. Templates
- d. Custom Structural Directives

8. Dependency Injection and Providers

- a. Terminology

- b. Dependency Injection Basics
- c. Services
- d. Providers
- e. Factories
- f. Injection Tokens

9. Pipes

- a. Using a Pipe
- b. Built in Pipes
- c. Custom Pipes
- d. Pure vs Impure

10. Working with Forms

- a. What's in a Form
- b. Responding to a Changes
- c. Form Builder
- d. Data Validation

11. Talking to Server

- a. Sending and Receiving Data
- b. HTTP Client Module
- c. Http Interceptors
- d. Observable vs Promises

12. Building a Single Page Application

- a. What is SPA
- b. Router Module
- c. Route Configuration
- d. Parent-Child Navigation
- e. Route Guards