Angular Training

Narasimha

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Schedule for Angular Training

Day#	Date	Topic	
Day-1	21-Feb-2024	Introduction to Angular, Components	
Day-2	24-Feb-2024	 Templates Template Driven & Reactive Forms 	
Day-3	25-Feb-2024	Services & Dependency InjectionPipes & Data Formatting	
Day-4	26-Feb-2024	Angular RoutingAngular Modules	
Day-5	27-Feb-2024	 HTTP Client Observables & RxJS Library 	
Day-6	28-Feb-2024	Recap Angular and Q & ACase Study	

Index - Day2

- Recapping Angular Introduction
- Angular Components
- Templates
- Data Binding



Angular Introduction



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Introduction to Angular

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What is Anguar?

- Angular is an open-source framework for building dynamic web applications. It's written in TypeScript and maintained by Google.
- What Angular is used for Building single-page web applications (SPAs), Developing mobile applications, and Creating user interfaces (front-ends).





Features of Angular

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Features of Angular Framework

- Component Based
- TypeScript Language
- HTML Template
- Data Binding
- Routing





Angular CLI Environment Setup

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Environment Setup

- Install Node JS
- Install typescript
- Install Angular CLI

npm install -g @angular/cli@16.1.0



Create angular project

- ng new my-project
- cd my-project
- ng s -o

http://localhost:4200





Building Blocks of Angular Application

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Building Blocks of Angular Application

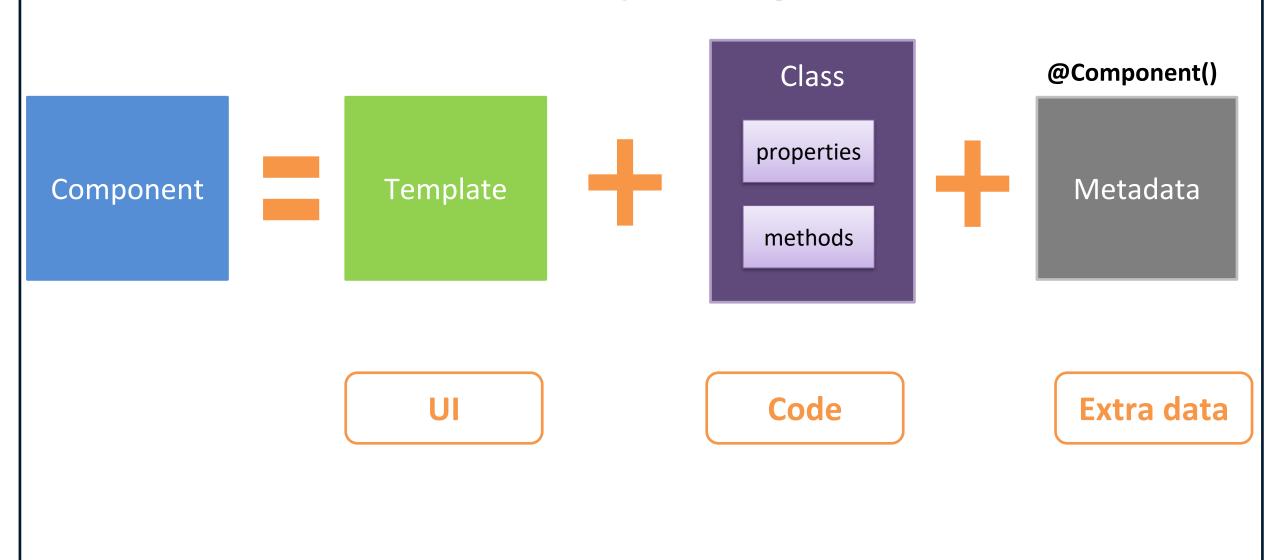
- Modules
- Components
- Pipes
- Services
- Directives
- Routing





Angular Components

Understanding Components



Component Decorator

```
import { Component } from '@angular/core';
@Component({
 selector: 'app-root',
 templateUrl: './app.component.html',
 styleUrls: ['./app.component.css']
export class AppComponent {
title = 'my-app';
```



@Component() decorator

```
rc > app > TS app.component.ts > 😭 AppComponent
                                                         Tag Name
      import { Component } from '@angular/core';
 3
      @Component({
                                                  decorator
        selector: 'app-root',
                                                  component decorator
        templateUrl: './app.component.html',
                                                  provides metadata
        styleUrls: ['./app.component.css']
 6
      export class AppComponent {
 8
 9 %
                                                              *UI Logic File
        public uname:string = "Scott";
10
        public email:string = "scott@gmail.com";
11
12
        public age:number = 25;
                                                             CSS Files
        public isValidUser:boolean = true;
13
14
15
```

Practical Implementation



Templates in Angular



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Data Handling

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Data Handling

- 1. Scalar
- 2. Arrays
- 3. Object
- 4. Array of Objects

















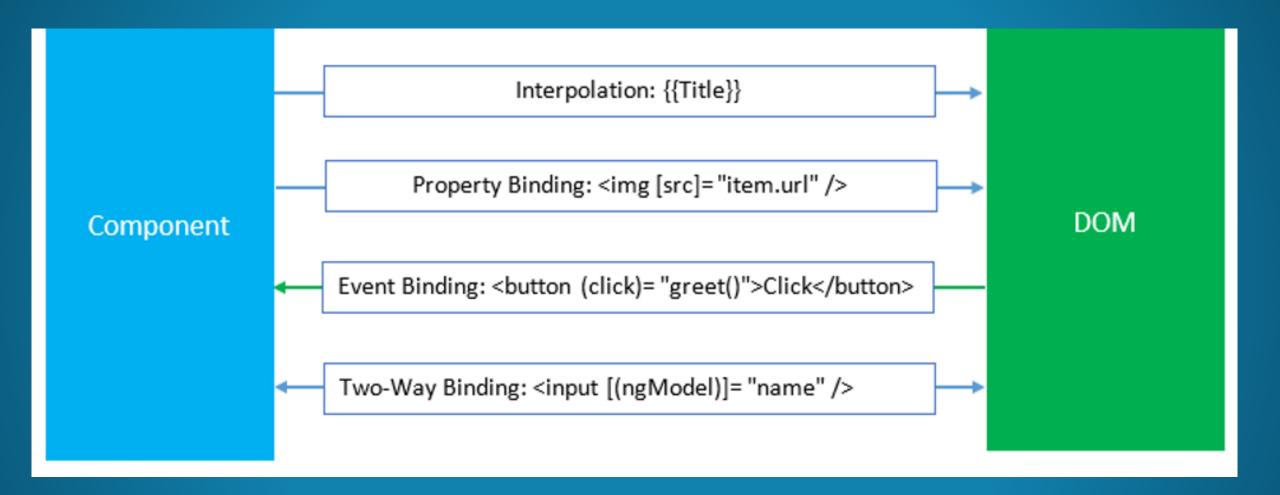
Data Binding

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Data Binding

- 1. Interpolation --- {{ }}
- 2. Property binding --- []
- 3. Event binding --- ()
- 4. Two-way binding --- [()]





Question

1. How to use even and odd variables in *ngFor?



Directives in Angular

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Directives in Angular

- 1. Structural directives
- 2. Attribute directives



Directives in Angular

- 1. *ngIf, *ngFor, *ngSwitchCase, *ngSwitchDefault
- 2. ngSwitch, ngClass, ngStyle, ngModel



Usage of ngSwitch

```
<tag [ngSwitch]="variable">
     <tag *ngSwitchCase=" value "> </tag>
     <tag *ngSwitchCase=" value "> </tag>
     <tag *ngSwitchDefault> </tag>
```



1. Mr./Ms. Scott joined in Angular course.

2. Mr./Ms. **Smith** joined in HTML5 course.

3. Mr./Ms. Smith joined in React JS course.

4. Mr./Ms. **James** joined in Angular course.

5. Mr./Ms. Adam joined in Java Script course.

6. Mr./Ms. Sathya joined in React JS course.

7. Mr./Ms. Mark joined in Angular course.

8. Mr./Ms. **Peter** joined in HTML5 course.

9. Mr./Ms. Maneesh joined in React JS course.

10. Mr./Ms. Ramesh joined in Angular course.

11. Mr./Ms. Vinush joined in Java Script course.

12. Mr./Ms. **Haneesh** joined in React JS course.

S.No.	Student Name	Course Name
1	Scott	Angular
2	Smith	HTML5
3	Smith	React JS
4	James	Angular
5	Adam	Java Script
6	Sathya	React JS
7	Mark	Angular

Scott	Smith	Smith React JS	James
Angular	HTML5		Angular
Adam	Sathya	Mark	Peter
Java Script	React JS	Angular	HTML5
Maneesh	Ramesh	Vinush	Haneesh
React JS	Angular	Java Script	React JS

Usage of nglf

<div *ngIf="uid == 'admin' ">
Content to render when condition is true.





Usage of ngClass

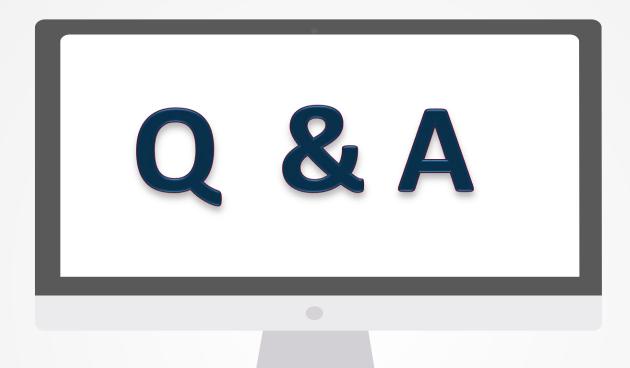
```
<div [ngClass]=" 'first second' ">
...
</div>
```

```
<div [ngClass]=" {'first': true, 'second': true} ">
...
</div>
```



Practical Assignment





Templates in Angular Components

- 1. Where is the template location?
- 2. Wat is Data Binding?
- 3. Explain The Mustache {{ }} Syntax
- 4. How to setting DOM Element Properties?
- 5. How to setting Element Body Text?
- 6. What is Event Binding?
- 7. Explain how to looping Using ngFor?
- 8. What are the Attribute Directives?
- 9. What are the Structural Directives
- 10. What is two-way data binding?



