05

Template And Directives

WHAT YOU WILL LEARN

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# What is template

Each Angular template in your application is **a section of HTML to include as a part of the page that the browser displays**. An Angular HTML template renders a view, or user interface, in the browser, just like regular HTML, but with a lot more functionality.

# WHAT ARE DIRECTIVES

The Angular directives are used to manipulate the DOM. By using Angular directives, you can change the appearance, behaviour or a layout of a DOM element. It also helps you to extend HTML.

A picture containing text, sign, clipart

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# Component Directives

**Component Directives:** Component directives are used in main class. They contain the detail of how the component should be processed, instantiated and used at runtime.

1. **@Component**. It contains the details on component processing, instantiated and usage at run time.  
   **Example:** It contains certain parameters some of them are shown in this example.



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# Structural Directives

**Structural Directives:** Structural directives start with a \* sign. These directives are used to manipulate and change the structure of the DOM elements.

It changes structure of view (html)

For example, \*ngIf directive, \*ngSwitch directive, and \*ngFor directive.

* **\*ngIf Directive:**
  1. The ngIf allows us to Add/Remove DOM Element.
  2. Uses symbol asterisk (\*) in ngif directive
  3. Example <div \*ngIf=” condition”></div>
* **ngIf with else Statement** 
  1. used along with ngIf statement
  2. **Else** statement will show the block based on false
  3. For using else statement – we need to use <ng-template> and pass template reference variable along with it.
  4. Example:
     + <div
* **\*ngSwitch Directive:** The \*ngSwitch allows us to Add/Remove DOM Element. It is similar to switch statement of JS.
* **\*ngFor Directive:** The \*ngFor directive is used to repeat a portion of HTML template once per each item from an iterable list (Collection).

# Attribute Directives

**Attribute Directives:** Attribute directives are used to change the look and behavior of the DOM elements. For example: ngClass directive, and ngStyle directive etc.

* **ngClass Directive:** The ngClass directive is used to add or remove CSS classes to an HTML element.
* **ngStyle Directive:** The ngStyle directive facilitates you to modify the style of an HTML element using the expression. You can also use ngStyle directive to dynamically change the style of your HTML element.

All The Best!!!