Angular Components

Presented by

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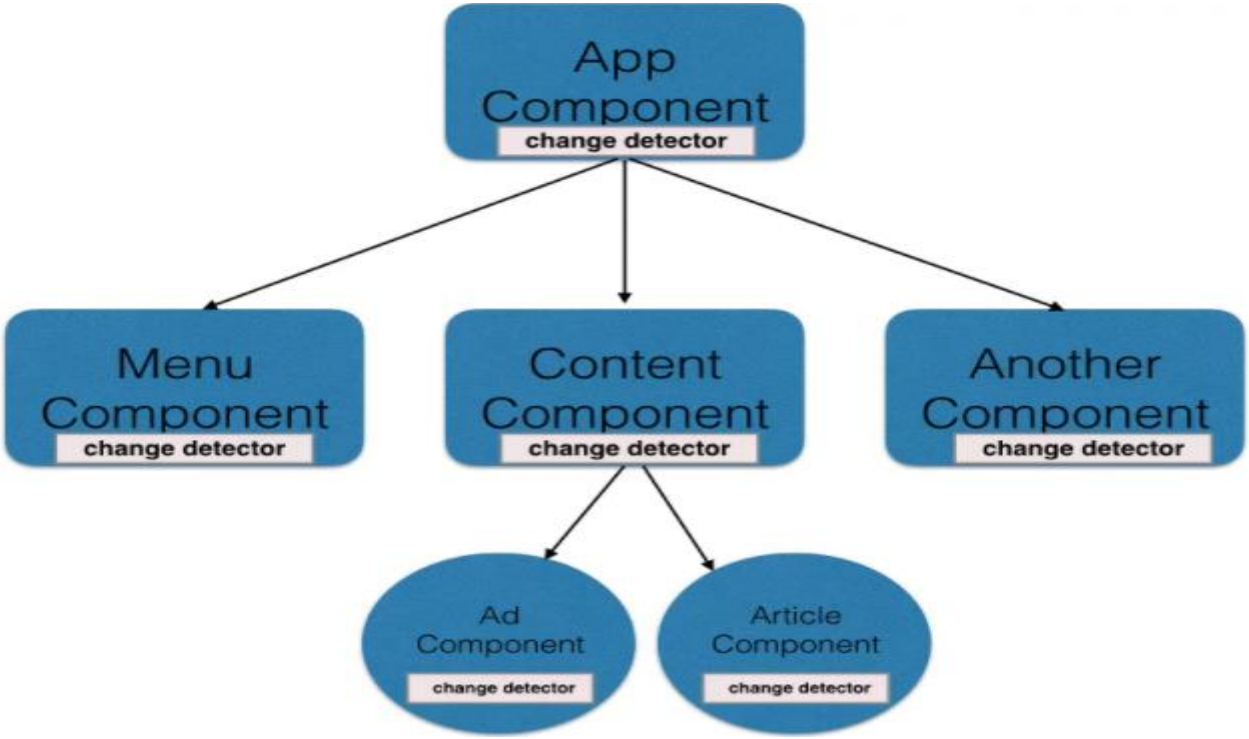
Angular Components

- Components are basic building blocks in Angular app.
- Components in angular are similar to pages in a website, classes and objects in OOP



Angular Components…

- Whole angular application is built using different components.
- Components are the most basic user interface building block of an Angular application.
- An angular application contains a tree of angular components.
- An Angular app is a tree structure consisting of all those components that we create.

Angular Components…

- A component is nothing more than a simple TypeScript class.
- App specific methods and properties according to the requirements are written.
- Components are used to bind with a UI (HTML page) of the application.
- The component controls View or the template of the application.

app.component.ts

```
import { Component } from '@angular/core';

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

app.component.ts

1. Component Imports

```
import { Component } from '@angular/core';
```

To import the angular built-in component Component from the @angle / core library.

Some components may have more imports as per the need.

app.component.ts

2. The Component Decorator

```
@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
```

app.component.ts

- The @Component, called as decorator, is using component that was imported from the above import line.
- This is what makes this class a component.
- Configuration properties – to define the component :

  selector: This is the name of the label to which the component is applied.

  For example: <app-root> Loading ... </ app-root> in index.html.

  templateUrl & styleUrls: These define the HTML template and style sheets associated with this component.

app.component.ts

3. The Component Class

```
export class AppComponent {
  title = 'app';
}
```

- The Component class is the core of the component.
- All properties and methods defined here are accessible from the template.
- Likewise, events occurring in the template are accessible within the component.

app.component.ts

- To make this class (AppComponent) an angular component, we need to decorate the above class using the @Component decorator that is present in the @ angular / core library.
- That's why we have to import @ angular/core even using the following piece of code.
- Note: The normal TypeScript class will become a component class once decorated with @component decorator.
- Finally a component must belong to an NgModule to be available for another component or application.
- To specify that a component is a member of an NgModule, it must be included in the declaration field of that @NgModulemetadata (NgModule).
- When we created a new project using the angular-cli command, the above files were created by default.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