

Enterprise Software Development





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Services



Encapsulates functionality

Usually concerned with communication

such as HTTP, JSON, Text, Hardcoded

Removes complexity from components







Use the Angular CLI

ng generate service <path>

ng g s <path>

E.g.

ng generate service services/joke ng g s services/joke

Make a Service using the CLI



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 2: powershell The state of the

Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Code\Hackday\gabe-norris-app> ng generate service services/joke

Make a Service using the CLI



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Code\Hackday\gabe-norris-app> ng generate service services/joke
CREATE src/app/services/joke.service.ts (323 bytes)
CREATE src/app/services/joke.service.ts (133 bytes)
PS C:\Code\Hackday\gabe-norris-app>
```

Is this a Joke?



```
TS joke.service.ts X
       import { Injectable } from '@angular/core';
       @Injectable({
         providedIn: 'root'
  5
       })
       export class JokeService {
  6
         constructor() { }
 10
```

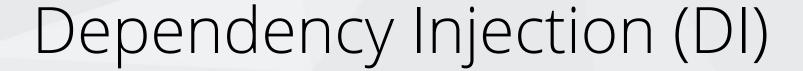
Implementing a service



```
TS joke.service.ts ●
       import { Injectable } from '@angular/core';
       @Injectable({
         providedIn: 'root'
       export class JokeService {
         constructor() { }
 10
         public fetchJoke(firstName: string, lastName: string, category: string): Observable<Joke> {
             // Magic 🧝 and Unicorns 🧎
 12
             // Yes you can code with emoji's!!! 🢪 👉 🎉
 13
 14
 16
```



I have a Service... now what?



Components Depend on Services

Services are Injected into Components

Constructor Injection

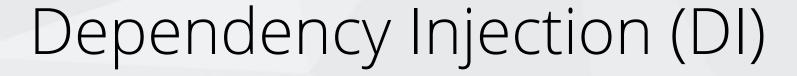
```
TS app.component.ts 🗙
       import { Component } from '@angular/core';
       import { JokesService } from './services/jokes.service';
       import { Joke } from './models/Jokes';
       @Component({
           selector: 'app-root',
  6
           templateUrl: './app.component.html',
           styleUrls: ['./app.component.scss']
  9
       })
       export class AppComponent {
 10
 11
           title = 'Gabe Norris\'s Jokes Generator';
 12
 13
           firstName: string;
 14
 15
           lastName: string;
           category = 'nerdy';
 16
 17
 18
           latestJoke: Joke;
 19
           constructor(private jokesService: JokesService) {
 20
```

21

22

Consuming a Service

```
constructor(private jokesService: JokesService) {
20
21
22
23
          generateJoke() {
              this.jokesService.fetchJoke(this.firstName, this.lastName, this.category)
24
25
                   .subscribe(
26
                       data => {
27
                           if (data !== null) {
28
                               this.latestJoke = data;
29
30
                       },
31
                       error => {
32
                           alert(error);
33
                      });
34
36
```



Angular built-in DI Framework

- Modularity
- Reusability
- Testability

DEMO

Thank you!

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Questions?