Cross-Cutting Concerns in Angular

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hi!

I am Matt Vaughn

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Lukka THE Husky

Profile:

- 4 years old
- Instagram: **lukka_the_husky**

Real-life cross-cutting concerns?

Home KITCHEN

- Lights
- Gas Stove/Range
- Hot Water
- Cold Water
- Heat/Air Conditioning
- Appliances

0006-X

What are cross-cutting concerns?

Things you need...

Cross-Cutting Concerns

They are concerns that other parts of the application rely on or use - and are generally not related to the domain of the system or application.

- solve inter-dependency communication
- used by multiple layers and/or verticals of a system
- typically have a single-responsibility
- utility types
- allows reuse of the concern from a single-source (library)

Types of cross-cutting…

Things you need…

Types of Cross-Cutting Concerns

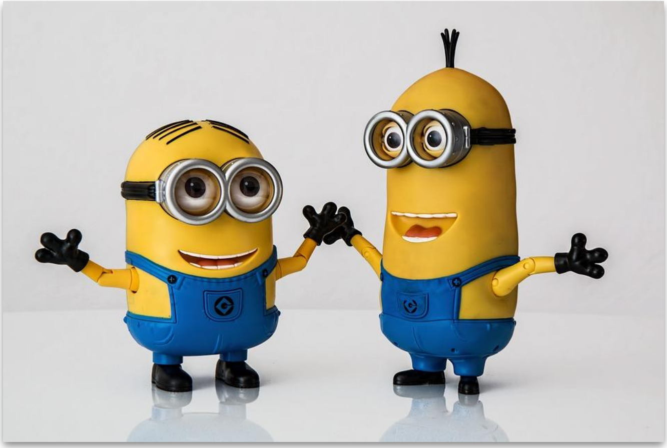
- Configuration
- Logging
- Exception Handling
- Exception Logging
- Notifications
- Security
  - Authentication
  - Authorization
- Data Validation
- Business Rules
- HTTP/Data Access
- Caching
- Data Persistence and Storage

BENEFITS?

WHY SHOULD I USE THEM, WHAT’S THE BENEFIT?

WHAT are the BENEFITS?

- Solve common problems
- Single source of truth
- Consistent
- Reusable
- Maintainable
- Separate from domain code



Implementation CONCERNS

What do I need to know about implementation?

Implementation Goals

- Easily accessible
- Available early to application
- @Injectable
    - Use Angular DI
    - Service with API
    - Consumer provides the service
- Contained in its own @NgModule
- Should be configurable

DEMO
Time

Final THOUGHTS

The future is so bright...

REMEMBER WHY.

- Don’t Repeat Yourself (DRY) Principle
- Separation of Concerns
- Single Responsibility
- Encapsulation
- Interface-Driven Design
- Versioning
- . . .

*BE SO GOOD
THEY CANNOT
IGNORE
YOU.*

Presentation RESOURCES

- Cross-Cutting Concern Definition
- Aspects and Aspect-Oriented-Programming

Thanks!

Any questions?

You can find me at @angularlicious & matt@angularlicio.us