Design Pattern & Clean Code

Zero Impact Injection

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Goals

- Refactor Brownfield Project
- Single Responsibility Principle
- Interface Segregation Principle
- Dependency Injection
- Zero Impact Injection
- Testable Code.

Steps

- Extract Code (Method 🗗 Class 🕞 Project)
- Create Single Dependency (new())
- Inject Dependency
- Null-Object Pattern.

Extract code [SRP]

- Extract method
- Move to class
- Introduce field
- Namespace indicates dependencies
- Create a documentation of the class without "and"
- VS Demo: Barcode Code

[Zero Impact Injection]

- Add interface to class
- Inject as interface into class
- Use ?? for default implementation

VS Demo: Barcode class

[Null-Object Pattern]

- Reduces null-checks
- "Identity Element" for an interface
- Empty implementation
- Returns default
- IFooBar --> EmptyFooBar
- Implemented along with Interface
- VS Demo: Empty logger class