"SOLID Programming in C#"

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Presentation

- Name
- Company affiliation
- Area of expertise
- C# experience
- Expectations for the course

Prerequisites

- Working knowledge of newest C# and Visual Studio
  - Object-oriented development
    - Classes
    - Inheritance
    - Interfaces
    - Delegates
    - …
  - Some knowledge of Design Patterns might be helpful (but is not required)

- An interest in producing maintainable C# code ☺

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"SOLID Programming in C#" – Day 1

- Module 0: Introduction
- Module 1: The SOLID Principles
  - Single Responsibility Principle
  - Open/Closed Principle
  - Liskov Substitution Principle
  - Interface Segregation Principle
  - Dependency Inversion Principle
- Module 2: SOLID in Practice
  - Workshop A.1
  - 2.1: Repository Pattern
  - Workshop A.2

"SOLID Programming in C#" – Day 1

- Module 2: SOLID in Practice (Cont'd)
  - (Optional) 2.2: Automatic Testing
  - Workshop A.3

- Module 3: Managing Dependencies
  - Workshop A.4
  - 3.1: Null Object Pattern
  - (Optional) Workshop A.5

"SOLID Programming in C#" – Day 2

- Module 04: Workshop B: Create User Service
  - 4.1: Strategy Pattern
  - 4.2: (Optional) Decorator / Proxy Pattern
  - 4.3: (Optional) Composite Pattern
- Module 05: Dependency Injection Containers
  - Containers
  - Workshop C.1: Adding Unity DI
  - Dependency Injection Patterns
  - Workshop C.2: Interception
  - Lifetime Management

"SOLID Programming in C#" – Day 2

- Conclusion

- (For Later) Workshop D: If Time Permits…

Course Material

- Book
  - Mark Seemann and Steven van Deursen:
    "Dependency Injection Principles, Practices, and Patterns"
    Manning (2019), 1st Edition

- Slides
- Examples for every module
- Workshop and all workshop solutions
- Course evaluation after Day 2

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Practical Information

- Each course day will be from 9.00 to 16.00
- Breaks
- Toilets
- Food and beverages
- Phones and devices
- Smoking

- Any questions…?


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