"Design Patterns in C#"

Agilent Special Course

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Presentation

- Name
- Company affiliation
- Area of expertise
- Design Patterns experience
- Expectations for the course



Prerequisites

- Working knowledge of newest C# and Visual Studio
 - Object-oriented development
 - Classes
 - Inheritance
 - Interfaces
 - Delegates
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- ▶ Interest in structuring your code nicely ◎
- Experience in C#
- Some knowledge of WPF for Day 2



"Selected Gang of Four Design Patterns in C#" – Day 1

- ▶ 00 Course Outline
- ▶ 01 What Are Design Patterns?
- ▶ 02 Abstract Factory
- 03 Builder and Fluent API
- ▶ 04 Decorator
- ▶ 05 Façade
- ▶ 06 State
- ▶ 07 Observer
- ▶ If Time Permits: 08 Command



"Data-centric and Application Patterns in C#" – Day 2

- ▶ 09 Repository (including EF intro)
- ▶ 10 Unit of Work
- ▶ 11 Proxy (including Caching Lab)
- ▶ 12 Introduction to MVVM
- ▶ 13 MVVM Problems and Patterns
- ▶ If Time Permits: 14 The SOLID Principles



Course Material

- Background Material
 - Erich Gamma, Richard Helm, Ralph Johnson, and John Vlissides: "Design Patterns: Elements of Reusable Object-Oriented Software"
 - Martin Fowler: "Patterns of Enterprise Application Architecture"
 - Martin Fowler's Patterns page: http://www.martinfowler.com
- Slides
- Examples for every module
- ▶ Labs (and lab solutions) for every module
- Course evaluation after Day 2



Practical Information

- ▶ Each course day will be from 8.30 to 16.30
- Breaks
- Any questions...?



