SETC Training Corporate Logo

.NET Training: Inheritance, Polymorphism & Design Patterns (NFADVNET, 4 jours)

Description

The course Inheritance, Polymorphism & Design Patterns (.NET Training) begins with a thorough overview of UML design principles and of their use to implement enterprise grade .NET applications. Strong emphasis is placed on the concepts of inheritance, polymorphism and interfaces for proper application design. The training includes a detailed exploration of Business Entity Frameworks (ASP .NET MVC, MVVM, CSLA .NET, Prism, etc.), and advanced validation & configuration techniques.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Building Good Software

- Overview
- Characteristics of a Good Software Solution
- How Good Software Is Built
- Iterative Development
- Requirements Management
- Use of Component-Based Architectures
- Ongoing Verification of Software Quality
- Control of Software Changes

UML Primer

- Going From Analysis to Design
- UML Class Notation
- Generalization
- Aggregations
- Collection Classes
- Sequence Diagrams
- Statechart Diagrams
- Activity Diagrams
- Interfaces, Templates and Patterns

Inheritance and Polymorphism

- Inheritance
- Inheritance and Constructors
- Polymorphism
- Abstract Functions and Classes
- Using Interfaces in Everyday Programming

.Net Programming

- Working with Reference Types
- Exception Handling Overview
- Exception Handling
- Events
- Using Generics
- Creating Generics

Operator Overloading
Design Patterns
Overview of Target Class Structure
About Object Creation
About Object Structure
Refactoring Considerations
Abstract Factory
Singleton
Client Code Review
Bridge
Builder
Façade
Prototype
Adapter
Composite
Other Patterns
Refactoring Considerations
Advanced Development Technologies
About Enterprise Frameworks
Business Entity Frameworks
Validation Frameworks
Application Development In An Enterprise Framework
Making an Object Bindable
Microsoft Enterprise Library (Mel)
Using Microsoft Enterprise Library
Using Microsoft Application Blocks
Data Access Application Block
Exception Handling Block
Logging Application Block
Logging Exceptions
Validation Block
Nhibernate Basics
Overview
The Problem With Hand-Coded Sql
About O/Rm With Nhibernate
Nhibernate Namespaces
Nhibernate Interfaces
The Isessionfactory
The Session Instances
Identity
Nhibernate Application Configuration
Object Mapping
Overview
The Domain Model
Mapping Basics
Mapping Objects
Dealing With Identity
Mapping Types
Mapping: Value Types and Entity Types
Mapping Class Hierarchies

Mapping Associations
Mapping Collections
Mapping and Polymorphism
Building a Struts Framework For .Net
Model 1 and Model 2 Architecture
Mvc For .Net
The Configuration File
Implementing the View
The Action