

Comparing of the use of design pattern decorator and aspect-oriented programming in .NET to modularize crosscutting concerns [Comparación de uso del patrón de diseño decorator y la programación orientada a aspectos en .NET para modularizar incumbencias cruzadas]

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Looking for modular .NET software solutions, this article describes and illustrates how to produce modular .NET solutions through the use of the object-oriented software design pattern Decorator and the aspect-oriented programming (AOP) tool PostSharp for the crosscutting concerns modularization of an application. The application is a base and traditional crosscutting concerns example (logging example). This article presents solutions of logging by the use of Decorator and PostSharp for the modularization of its crosscutting concerns. It also gives details of the advantages and disadvantages of both solutions. Furthermore, this article specifies AOP information that is part of PostSharp and proposes applying PostSharp and Decorator to achieve higher modularity level solutions.

AOP

Aspects oriented programing

Decorator

NET

PostSharp

Application programs

Aspect oriented programming

Modular construction

Software architecture

Software design

Aspect-Oriented Programming (AOP)

Aspects oriented programing

Cross-cutting concerns

Decorator

Design Patterns

Object-oriented software designs

PostSharp

Software solution

Object oriented programming