Apex Design Patterns

Jitendra Zaa, Anshul Verma

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Harness the power of Apex design patterns to build robust and scalable code architectures on the Force.com platform

About This Book

- Apply Creational, Structural and behavioural patterns in Apex to fix governor limit issues.
- Have a grasp of the anti patterns to be taken care in Apex which could have adverse effect on the application.
- The authors, Jitendra Zaa is a salesforce MVP and Anshul Verma has 12+ years of experience in the area of application development.

Who This Book Is For

If you are a competent developer with working knowledge of Apex, and now want to deep dive into the world of Apex design patterns to optimize the application performance, then this book is for you. Prior knowledge of Salesforce and Force.com platform is recommended.

What You Will Learn

- Apply OOPs principal in Apex to design a robust and efficient solution to address various facets to a business problem
- Get to grips with the benefits and applicability of using different design patterns in Apex
- Solve problems while instantiating, structuring and giving dynamic behavior to Apex classes
- Understand the implementation of creational, structural, behavioral, concurrency and anti-patterns in your application
- Follow the Apex best practices to resolve governor limit issues
- Get clued up about the Inheritance, abstract classes, polymorphism in Apex to deal with the object mechanism
- Master various design patterns and determine the best out of them
- Explore the anti patterns that could not be applied to Apex and their appropriate solutions

In Detail

Apex is an on-demand programming language providing a complete set of features for building business applications – including data models and objects to manage data. Apex being a proprietor programming language from Salesforce to be worked with multi tenant environment is a lot different than traditional OOPs languages like Java and C#. It acts as a workflow engine for managing collaboration of the data between users, a user interface model to handle forms and other interactions, and a SOAP API for programmatic access and integration.

Apex Design Patterns gives you an insight to several problematic situations that can arise while developing

on Force.com platform and the usage of Design patterns to solve them. Packed with real life examples, it gives you a walkthrough from learning design patterns that Apex can offer us, to implementing the appropriate ones in your own application. Furthermore, we learn about the creational patterns that deal with object creation mechanism and structural patterns that helps to identify the relationship between entities. Also, the behavioural and concurrency patterns are put forward explaining the communication between objects and multi-threaded programming paradigm respectively. We later on, deal with the issues regarding structuring of classes, instantiating or how to give a dynamic behaviour at a runtime, with the help of anti-patterns. We learn the basic OOPs principal in polymorphic and modular way to enhance its capability. Also, best practices of writing Apex code are explained to differentiate between the implementation of appropriate patterns. This book will also explain some unique patterns that could be applied to get around governor limits.

By the end of this book, you will be a maestro in developing your applications on Force.com for Salesforce

Style and approach

This book is a step-by-step guide, complete with well-tested programs and real world situations to solve your common occurring problems in Apex design by using the anti-patterns. It gets crackling from exploring every appropriate solution to comparing the best one as per OOps principal.

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Sharon Hafer:

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