Cassandra Design Patterns

Second Edition

Build industry-strength data storage solutions with time-tested design methodologies using Cassandra

Rajanarayanan Thottuvaikkatumana

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Cassandra Design Patterns - Second Edition Rajanarayanan Thottuvaikkatumana,2015-10-30 *Cassandra Design Patterns* Rajanarayanan Thottuvaikkatumana,2015-11-04 Build real world industry strength data storage solutions with time tested design methodologies using Cassandra About This Book Explore design patterns which co exist with legacy data stores migration from RDBMS and caching technologies with Cassandra Learn about design patterns and use Cassandra to provide consistency availability and partition tolerance guarantees for applications Handle temporal data for analytical purposes Who This Book Is For This book is intended for big data developers who are familiar with the basics of Cassandra and wish to understand and utilize Cassandra design patterns to develop real world big data solutions Prior knowledge of RDBMS solutions is assumed What You Will Learn Enable Cassandra to co exist with RDBMS and other legacy data stores Explore various design patterns to build effective and robust storage solutions Migrate from RDBMS based data stores and caching solutions to Cassandra Understand the behaviour of Cassandra when trying to balance the needs of consistency availability and partition tolerance Deal with time stamps related to data effectively See how Cassandra can be used in analytical use cases Apply the design patterns covered in this book in real world use cases In Detail There are many NoSQL data stores used by big data applications Cassandra is one of the most widely used NoSQL data stores that is frequently used by a huge number of heavy duty Internet scale applications Unlike the RDBMS world the NoSQL landscape is very diverse and there is no one way to model data stores This mandates the need to have good solutions to commonly seen data store design problems Cassandra addresses such common problems simply If you are new to Cassandra but well versed in RDBMS modeling and design then it is natural to model data in the same way in Cassandra resulting in poorly performing applications and losing the real purpose of Cassandra If you want to learn to make the most of Cassandra this book is for you This book starts with strategies to integrate Cassandra with other legacy data stores and progresses to the ways in which a migration from RDBMS to Cassandra can be accomplished The journey continues with ideas to migrate data from cache solutions to Cassandra With this the stage is set and the book moves on to some of the most commonly seen problems in applications when dealing with consistency availability and partition tolerance guarantees Cassandra is exceptionally good at dealing with temporal data and patterns such as the time series pattern and log pattern which are covered next Many NoSQL data stores fail miserably when a huge amount of data is read for analytical purposes but Cassandra is different in this regard Keeping analytical needs in mind you ll walk through different and interesting design patterns No theoretical discussions are complete without a good set of use cases to which the knowledge gained can be applied so the book concludes with a set of use cases you can apply the patterns you ve learned Style and approach This book is written in very simple language and an engaging style complete with examples in every chapter and real world use cases at the end of the book **Scala Design Patterns** Ivan Nikolov,2018-04-09 Learn how to write efficient clean and reusable code with Scala Key Features Unleash the

power of Scala and apply it in the real world to build scalable and robust applications Learn about using and implementing Creational Structural Behavioral and Functional design patterns in Scala Learn how to build scalable and extendable applications efficiently Book Description Design patterns make developers lives easier by helping them write great software that is easy to maintain runs efficiently and is valuable to the company or people concerned You ll learn about the various features of Scala and will be able to apply well known industry proven design patterns in your work The book starts off by focusing on some of the most interesting and latest features of Scala while using practical real world examples We will be learning about IDE s and Aspect Oriented Programming We will be looking into different components in Scala We will also cover the popular Gang of Four design patterns and show you how to incorporate functional patterns effectively The book ends with a practical example that demonstrates how the presented material can be combined in real life applications You ll learn the necessary concepts to build enterprise grade applications By the end of this book you ll have enough knowledge and understanding to quickly assess problems and come up with elegant solutions What you will learn Immerse yourself in industry standard design patterns structural creational and behavioral to create extraordinary applications See the power of traits and their application in Scala Implement abstract and self types and build clean design patterns Build complex entity relationships using structural design patterns Create applications faster by applying functional design patterns Who this book is for If you want to increase your understanding of Scala and apply design patterns to real life application development then this book is for you Prior knowledge of Scala language is assumed expected *Design Patterns for Cloud Native Applications* Kasun Indrasiri,Sriskandarajah Suhothayan,2021-05-17 With the immense cost savings and scalability the cloud provides the rationale for building cloud native applications is no longer in question The real issue is how With this practical guide developers will learn about the most commonly used design patterns for building cloud native applications using APIs data events and streams in both greenfield and brownfield development You ll learn how to incrementally design develop and deploy large and effective cloud native applications that you can manage and maintain at scale with minimal cost time and effort Authors Kasun Indrasiri and Sriskandarajah Suhothayan highlight use cases that effectively demonstrate the challenges you might encounter at each step Learn the fundamentals of cloud native applications Explore key cloud native communication connectivity and composition patterns Learn decentralized data management techniques Use event driven architecture to build distributed and scalable cloud native applications Explore the most commonly used patterns for API management and consumption Examine some of the tools and technologies you ll need for building cloud native systems The publishers weekly ,1991 *American Bookseller* ,1990 **Resources in Education** ,1998 The Saturday Review of Politics, Literature, Science and Art ,1870 **Interior Design** Corky Binggeli,2007-02-26 From the history of interior design to professional development this guide completely covers the process of interior design the development of a design concept analysis of built spaces programming and functional relationships space planning and design development

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