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Advanced Schema Design Patterns

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with MongoDB MongoDB Schema

Design Best Practices ~~Schema Design~~

~~Anti-Patterns - Part 2~~ **A Complete**

Methodology of Data Modeling for

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MongoDB Applied Design Patterns
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1. To Embed or Reference - MongoDB Applied Design Patterns ...

The upshot of all of this is that MongoDB gives us the ability to design our schema to match the needs of our applications so we can get the most out of them. This flexibility is incredibly powerful but that power needs to be harnessed in terms of patterns we use in the application.

Design Patterns for MongoDB. Design decisions every full ...

On this episode, you'll meet Rick Copeland, a fellow MongoDB Master and author of the book MongoDB Applied Design Patterns. We'll discuss modeling data using documents in a document database such as MongoDB and some

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techniques and situations that apply particularly to MongoDB's implementation.

Transcripts Episode #109 MongoDB Applied Design Patterns ...

MongoDB Applied Design Patterns finally presents a complete example of lazy migration, including example code (in Python) for reading data in both formats while the migration is in progress. Without general-purpose transactions, MongoDB requires new techniques to guarantee that a series of changes is atomic: that is, to guarantee that in the long run your data either reflects all the changes ...

MongoDB Applied Design Patterns: Practical Use Cases with ...

Remember that schema design in MongoDB has a tremendous impact on the performance of your application. We've

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found that performance issues can frequently be traced to poor schema design. Keep in mind that to further enhance the power of the document model, these schema design patterns can be used together, when and if it makes sense.

Building with Patterns: A Summary | MongoDB Blog

Further, using MongoDB's flexible data model and the Polymorphic Pattern, the development team was able to innovate quickly to bring their product online. A Single View application is one use case of the Polymorphic Pattern. It also works well for things like product catalogs where a bicycle has different attributes than a fishing rod.

Building with Patterns: The Polymorphic Pattern - MongoDB

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MongoDB Applied Design Patterns finally presents a complete example of lazy migration, including example code (in Python) for reading data in both formats while the migration is in progress. Without general-purpose transactions, MongoDB requires new techniques to guarantee that a series of changes is atomic: that is, to guarantee that in the long run your data either reflects all the changes or none of them.

Review of "MongoDB Applied Design Patterns" by Rick Copeland

MongoDB Applied Design Patterns by Rick Copeland (O'Reilly Media) is another in a series of patterns books that I would highly recommend for the implementer that knows the technology but is trying to discover if a previous solution (via a pattern) has been found for their problem.

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MongoDB Applied Design Patterns by
Rick Copeland ...

MongoDB Applied Design Patterns
Designing the database is a huge process and it lays the groundwork for everything that comes later. MongoDB Applied Design Patterns forces you to think how NoSQL databases should be designed based on a project's needs. Since typically MongoDB is schemaless it can feel weird designing patterns this way.

12 Best MongoDB Books For Teaching Yourself

MongoDB Applied Design Patterns finally presents a complete example of lazy migration, including example code (in Python) for reading data in both formats while the migration is in progress. Without general-purpose transactions, MongoDB requires new techniques to guarantee that

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a series of changes is atomic: that is, to guarantee that in the long run your data either reflects all the changes ...

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[MongoDb Applied Design Patterns](#)

MongoDB Applied Design Patterns

Author: Rick Copeland Publisher:

O'Reilly, 2013 Pages: 176 ISBN:

978-1449340049 Aimed at: MongoDB

developers who want to become more

expert Rating: 4.5 Reviewed by: Kay

Ewbank. A guide for developers who have

already got to grips with MongoDB on

how to go about structuring your data.

[MongoDB Applied Design Patterns - I
Programmer](#)

DaaS with MongoDB and Confluent An
operational data layer (ODL) is an

architectural pattern that centrally

integrates and organizes siloed enterprise

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Copeland Rick 2010
data, making it available to consuming applications.

[MongoDB Applied | MongoDB Blog](#)
Read "MongoDB Applied Design Patterns Practical Use Cases with the Leading NoSQL Database" by Rick Copeland available from Rakuten Kobo. Whether you're building a social media site or an internal-use enterprise application, this hands-on guide shows you the...

[MongoDB Applied Design Patterns eBook by Rick Copeland ...](#)

Define a standardized minimal NoSQL deployment pattern for common small-to-medium, non-mission critical use cases.
Define an enhanced design pattern to support mission-critical use cases that require high availability, consistency, durability, scalability, and performance.

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Practical NoSQL resilience design pattern for the enterprise

On this episode, you'll meet Rick Copeland, a fellow MongoDB Master and author of the book MongoDB Applied Design Patterns. We will discuss modeling data using documents in a document database such as MongoDB and some techniques that particular apply to MongoDB's implementation. Links from the show Rick on twitter: @rick446

Whether you're building a social media site or an internal-use enterprise application, this hands-on guide shows you the connection between MongoDB and the business problems it's designed to solve. You'll learn how to apply MongoDB design patterns to several challenging domains, such as ecommerce,

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content management, and online gaming. Using Python and JavaScript code examples, you'll discover how MongoDB lets you scale your data model while simplifying the development process. Many businesses launch NoSQL databases without understanding the techniques for using their features most effectively. This book demonstrates the benefits of document embedding, polymorphic schemas, and other MongoDB patterns for tackling specific big data use cases, including:

- Operational intelligence: Perform real-time analytics of business data
- Ecommerce: Use MongoDB as a product catalog master or inventory management system
- Content management: Learn methods for storing content nodes, binary assets, and discussions
- Online advertising networks: Apply techniques for frequency capping ad impressions, and keyword targeting and bidding
- Social

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networking: Learn how to store a complex social graph, modeled after Google+
Online gaming: Provide concurrent access to character and world data for a multiplayer role-playing game

Whether you're building the newest and hottest social media web site or developing an internal-use-only enterprise business intelligence application, scaling your data model has never been more important. Traditional relational databases, while familiar, present significant challenges and complications when trying to scale up to such "big data" needs. Into this world steps MongoDB, a leading NoSQL database, to address these scaling challenges while also simplifying the process of development. However, in all the hype surrounding big data, many sites have launched their business on NoSQL databases without an understanding of the

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techniques necessary to effectively use the features of their chosen database.

MongoDB Applied Design Patterns provides the much-needed connection between the features of MongoDB and the business problems that it is suited to solve. The book's focus on the practical aspects of the MongoDB implementation makes it an ideal purchase for developers charged with bringing MongoDB's scalability to bear on the particular problem you've been tasked to solve.

Getting started with MongoDB is easy, but once you begin building applications with it, you'll face some complex issues. What are the tradeoffs between normalized and denormalized data? How do you handle replica set failure and failover? This collection of MongoDB tips, tricks, and hacks helps you resolve issues with everything from application design and

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implementation to data safety and monitoring. You get specific guidance in five topic areas directly from engineers at 10gen, the company that develops and supports this open source database:

- Application Design Tips: What to keep in mind when designing your schema
- Implementation Tips: Programming applications against MongoDB
- Optimization Tips: Speeding up your applications
- Data Safety Tips: Using replication and journaling to keep data safe—without sacrificing too much performance
- Administration Tips: How to configure MongoDB and keep it running smoothly

Until now, design patterns for the MapReduce framework have been scattered among various research papers, blogs, and books. This handy guide brings together a unique collection of valuable

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MapReduce patterns that will save you time and effort regardless of the domain, language, or development framework you're using. Each pattern is explained in context, with pitfalls and caveats clearly identified to help you avoid common design mistakes when modeling your big data architecture. This book also provides a complete overview of MapReduce that explains its origins and implementations, and why design patterns are so important. All code examples are written for Hadoop.

Summarization patterns: get a top-level view by summarizing and grouping data

Filtering patterns: view data subsets such as records generated from one user

Data organization patterns: reorganize data to work with other systems, or to make MapReduce analysis easier

Join patterns: analyze different datasets together to discover interesting relationships

Metapatterns: piece together several

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patterns to solve multi-stage problems, or to perform several analytics in the same job Input and output patterns: customize the way you use Hadoop to load or store data "A clear exposition of MapReduce programs for common data processing patterns—this book is indispensable for anyone using Hadoop." --Tom White, author of Hadoop: The Definitive Guide

Manage the huMONGOus amount of data collected through your web application with MongoDB. This authoritative introduction—written by a core contributor to the project—shows you the many advantages of using document-oriented databases, and demonstrates how this reliable, high-performance system allows for almost infinite horizontal scalability. This updated second edition provides guidance for database developers, advanced configuration for system

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administrators, and an overview of the concepts and use cases for other people on your project. Ideal for NoSQL newcomers and experienced MongoDB users alike, this guide provides numerous real-world schema design examples. Get started with MongoDB core concepts and vocabulary Perform basic write operations at different levels of safety and speed Create complex queries, with options for limiting, skipping, and sorting results Design an application that works well with MongoDB Aggregate data, including counting, finding distinct values, grouping documents, and using MapReduce Gather and interpret statistics about your collections and databases Set up replica sets and automatic failover in MongoDB Use sharding to scale horizontally, and learn how it impacts applications Delve into monitoring, security and authentication, backup/restore, and other

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Learn how to leverage MongoDB with your Python applications, using the hands-on recipes in this book. You get complete code samples for tasks such as making fast geo queries for location-based apps, efficiently indexing your user documents for social-graph lookups, and many other scenarios. This guide explains the basics of the document-oriented database and shows you how to set up a Python environment with it. Learn how to read and write to MongoDB, apply idiomatic MongoDB and Python patterns, and use the database with several popular Python web frameworks. You'll discover how to model your data, write effective queries, and avoid concurrency problems such as race conditions and deadlocks. The recipes will help you: Read, write, count, and sort documents in a MongoDB collection

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Learn how to use the rich MongoDB query language Maintain data integrity in replicated/distributed MongoDB environments Use embedding to efficiently model your data without joins Code defensively to avoid keyerrors and other bugs Apply atomic operations to update game scores, billing systems, and more with the fast accounting pattern Use MongoDB with the Pylons 1.x, Django, and Pyramid web frameworks

Summary MongoDB in Action, Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning

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Publications. About the Technology This document-oriented database was built for high availability, supports rich, dynamic schemas, and lets you easily distribute data across multiple servers. MongoDB 3.0 is flexible, scalable, and very fast, even with big data loads. About the Book MongoDB in Action, Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Lots of examples will help you develop confidence in the crucial area of data modeling. You'll also love the deep explanations of each feature, including replication, auto-sharding, and deployment. What's Inside Indexes, queries, and standard DB operations Aggregation and text searching Map-

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reduce for custom aggregations and reporting Deploying for scale and high availability Updated for Mongo 3.0 About the Reader Written for developers. No previous MongoDB or NoSQL experience is assumed. About the Authors After working at MongoDB, Kyle Banker is now at a startup. Peter Bakkum is a developer with MongoDB expertise. Shaun Verch has worked on the core server team at MongoDB. A Genentech engineer, Doug Garrett is one of the winners of the MongoDB Innovation Award for Analytics. A software architect, Tim Hawkins has led search engineering at Yahoo Europe. Technical Contributor: Wouter Thielen. Technical Editor: Mihalis Tsoukalos. Table of Contents PART 1 GETTING STARTED A database for the modern web MongoDB through the JavaScript shell Writing programs using MongoDB PART 2 APPLICATION

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DEVELOPMENT IN MONGODB

Document-oriented data Constructing queries Aggregation Updates, atomic operations, and deletes PART 3

MONGODB MASTERY Indexing and query optimization Text search

WiredTiger and pluggable storage

Replication Scaling your system with sharding Deployment and administration

Get the best out of Node.js by mastering its most powerful components and patterns to create modular and scalable

applications with ease About This Book

Create reusable patterns and modules by leveraging the new features of Node.js .

Understand the asynchronous single thread design of node and grasp all its features and patterns to take advantage of various functions. This unique guide will help you get the most out of Node.js and its

ecosystem. Who This Book Is For The

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book is meant for developers and software architects with a basic working knowledge of JavaScript who are interested in acquiring a deeper understanding of how to design and develop enterprise-level Node.js applications. Basic knowledge of Node.js is also helpful to get the most out of this book. What You Will Learn Design and implement a series of server-side JavaScript patterns so you understand why and when to apply them in different use case scenarios Become comfortable with writing asynchronous code by leveraging constructs such as callbacks, promises, generators and the async-await syntax Identify the most important concerns and apply unique tricks to achieve higher scalability and modularity in your Node.js application Untangle your modules by organizing and connecting them coherently Reuse well-known techniques to solve common design and coding issues

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Explore the latest trends in Universal JavaScript, learn how to write code that runs on both Node.js and the browser and leverage React and its ecosystem to implement universal applications In Detail Node.js is a massively popular software platform that lets you use JavaScript to easily create scalable server-side applications. It allows you to create efficient code, enabling a more sustainable way of writing software made of only one language across the full stack, along with extreme levels of reusability, pragmatism, simplicity, and collaboration. Node.js is revolutionizing the web and the way people and companies create their software. In this book, we will take you on a journey across various ideas and components, and the challenges you would commonly encounter while designing and developing software using the Node.js platform. You will also discover the

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"Node.js way" of dealing with design and coding decisions. The book kicks off by exploring the basics of Node.js describing its asynchronous single-threaded architecture and the main design patterns. It then shows you how to master the asynchronous control flow patterns, and the stream component and it culminates into a detailed list of Node.js implementations of the most common design patterns as well as some specific design patterns that are exclusive to the Node.js world. Lastly, it dives into more advanced concepts such as 'Universal Javascript, and scalability' and it's meant to conclude the journey by giving the reader all the necessary concepts to be able to build an enterprise grade application using Node.js. Style and approach This book takes its intended readers through a comprehensive explanation to create a scalable and efficient real-time server-side

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A catalog of solutions to commonly occurring design problems, presenting 23 patterns that allow designers to create flexible and reusable designs for object-oriented software. Describes the circumstances in which each pattern is applicable, and discusses the consequences and trade-offs of using the pattern within a larger design. Patterns are compiled from real systems, and include code for implementation in object-oriented programming languages like C++ and Smalltalk. Includes a bibliography. Annotation copyright by Book News, Inc., Portland, OR

Build an application from backend to browser with Node.js, and kick open the doors to real-time event programming. With this hands-on book, you'll learn how

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to create a social network application similar to LinkedIn and Facebook, but with a real-time twist. And you'll build it with just one programming language: JavaScript. If you're an experienced web developer unfamiliar with JavaScript, the book's first section introduces you to the project's core technologies: Node.js, Backbone.js, and the MongoDB data store. You'll then launch into the project—a highly responsive, highly scalable application—guided by clear explanations and lots of code examples. Learn about key modules in Node.js for building real-time apps Use the Backbone.js framework to write clean browser code, and maintain better data integration with MongoDB Structure project files as a foundation for code that will arrive later Create user accounts and learn how to secure the data Use Backbone.js templates to build the application's UIs, and integrate access

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Control with Node.js Develop a contact list to help users link to and track other accounts Use Socket.io to create real-time chat functionality Extend your UIs to give users up-to-the-minute information

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