



MongoDB for Java Developers

By Francesco Marchioni

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MongoDB for Java Developers By Francesco Marchioni

Design, build, and deliver efficient Java applications using the most advanced NoSQL database

About This Book

- Reuse the skills you have acquired through Hibernate or Spring to promote your applications to use NoSQL storage
- Explore the list of libraries that are already available to assist you in developing Java EE applications with MongoDB
- A step-by-step tutorial to create leaner and faster applications using MongoDB

Who This Book Is For

This book is for Java developers and architects that want to learn how to develop Java applications using the most popular NoSQL solution and the use cases of it.

What You Will Learn

- Install MongoDB and its client tools
- Set up a basic project that uses a MongoDB driver and perform CRUD operations with it
- Explore simple strategies for mapping Mongo documents with Java classes
- Use bulk operations to speed up the creation of massive document
- Design and develop a Java Enterprise application that uses MongoDB as storage
- Develop and deploy an application that uses Hibernate OGM as a persistence layer for your entities
- Use Spring Data and Spring Boot to leverage micro-services using MongoDB as storage

In Detail

The NoSQL movement is growing in relevance, attracting more and more developers. The MongoDB database is a well-recognized rising star in the

NoSQL world. It is a document database, which allows data persistence and enables you to query data in a nested state without any schema constraint and complex joins between documents.

This book provides all the knowledge you need to make MongoDB fit in your application schema, at the best of its capabilities. It starts from a basic introduction to the driver that can be used to perform some low-level interaction with the storage. Then it moves to use different patterns to abstract the persistence layer into your applications, starting from the flexible Google JSON library to the Hibernate OGM Framework and finally landing on the Spring data framework.

By the end of this book, you will know everything you need to use MongoDB in your Java applications.

Style and approach

A simple, tutorial-like approach is used to explain the concepts contained in the book in the simplest possible way. The chapters of this book are arranged so that complexity increases progressively as you gain more experience from the earlier chapters.



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Editorial Review

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Francesco Marchioni is a Red Hat Certified JBoss Administrator (RHCJA) and a Sun Certified enterprise architect working as a freelancer in Rome, Italy. He started learning Java in 1997, and since then, he has followed the path to the newest application program interfaces released by Sun. In 2000, he joined the JBoss community, when the application server was running the release 2.X. He has spent many years as a software consultant, wherein he envisioned many successful software migrations from vendor platforms to open source products such as JBoss AS, fulfilling the tight budget requirements of current times. Over the past 5 years, he has been authoring technical articles for O'Reilly Media and running an IT portal focused on JBoss products (<http://www.mastertheboss.com>). In December 2009, he published JBoss AS 5 Development, which describes how to create and deploy Java Enterprise applications on JBoss AS (<http://www.packtpub.com/jboss-as-5-development/book>). In December 2010, he published his second title, JBoss AS 5 Performance Tuning, which describes how to deliver fast and efficient applications on JBoss AS (<http://www.packtpub.com/jboss-5-performance-tuning/book>). In December 2011, he published yet another title, JBoss AS 7 Configuration, Deployment, and Administration, which covers all the aspects of the newest application server release (<http://www.packtpub.com/jboss-as-7-configuration-deploymentadministration/book>). In June 2013, he authored a new title, JBoss AS 7 Development, which focuses on developing Java EE 6 API applications on JBoss AS 7 (<https://www.packtpub.com/application-development/jboss-7-development>).

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