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Java 9 Concurrency Cookbook - Second Edition

Javier Fernández González

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Key Features

- Get detailed coverage of important recipes on multi-threading and parallel programming
- This book takes a close look at the Java 9 APIs and their impact on concurrency
- See practical examples on thread safety, high-performance classes, safe sharing, and a whole lot more

Book Description

Writing concurrent and parallel programming applications is an integral skill for any Java programmer. Java 9 comes with a host of fantastic features, which includes significant performance improvements and new APIs. This book will take you through all the new APIs, showing you how to build parallel and multi-threaded applications. It covers all the elements of the Java Concurrency API, with essential recipes that will help you take advantage of the exciting new capabilities.

Inside you'll discover a whole range of recipes from everything like thread management, synchronization, executors, parallel and reactive streams, and a whole lot more. If you're a Java developers who want to learn concurrency in a practical manner to keep by your side then this title is one you need!

What you will learn

- Find out to manage the basic components of the Java Concurrency API
- Use synchronization mechanisms to avoid data race conditions and other problems of concurrent applications
- Separate the thread management from the rest of the application with the Executor framework
- Solve problems using a parallelized version of the divide and conquer paradigm with the Fork / Join framework
- Process massive data sets in an optimized way using streams and reactive streams
- See which data structures we can use in concurrent applications and how to use them
- Practice efficient techniques to test concurrent applications
- Get to know tips and tricks to design concurrent applications

About the Author

Javier Fernández González is a software architect with almost 15 years' experience with Java technologies. He has worked as a teacher, researcher, programmer, analyst, writer, and now as an architect in all types of projects related to Java, especially J2EE.

As a teacher, he has taught over 1,000 hours of training in basic Java, J2EE, and Struts framework. As a researcher, he has worked in the field of information retrieval, developing applications in order to process large amounts of data in Java and has been a part of several journal articles and conference presentations as a coauthor.

In recent years, he has worked on developing J2EE web applications for various clients from different sectors (public administration, insurance, healthcare, transportation, and so on). Currently, he is working as a

software architect at Capgemini, which includes developing and maintaining applications for insurance companies and banks. Also, he is the author of Java 7 Concurrency Cookbook, Packt Publishing and Mastering Concurrency Programming with Java 8, Packt Publishing.

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