Spring Batch Essentials

P. Raja Malleswara Rao

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Design, develop, and deliver robust batch applications with the power of the Spring Batch framework

About This Book

- Leverage the POJO-based development approach to create comprehensive batch applications
- Customize the batch job components with the flexible XML, Annotations, and Expression Language-based configuration
- Enable high-volume and high-performance batch jobs through optimization and partitioning techniques

Who This Book Is For

If you are a Java developer with basic knowledge of Spring and some experience in the development of enterprise applications, and want to learn about batch application development in detail, then this book is ideal for you. This book will be perfect as your next step towards building simple yet powerful batch applications on a Java-based platform.

What You Will Learn

- Understand the infrastructure to design, develop, and execute a batch application
- Configure batch jobs using XML, Expression Language and annotations, and execute from diverse platforms
- Develop batch jobs with the essential read, process, and write features different forms of data
- Get to grips with techniques you can use to manage transactions, control job flows, and utilize data sharing
- Integrate Spring Batch with other technologies to develop robust batch applications on an enterprise platform
- Monitor and report the batch job execution updates by accessing live job execution information
- Optimize scale and performance improvement with parallel processing techniques
- Perform unit integration and functional testing on Spring Batch applications

In Detail

Spring Batch is an open source, lightweight, and comprehensive solution designed to enable the development of robust batch applications that are vital for enterprise operations.

Packed with real-world examples, this book starts with an insight into the batch applications and Spring Batch offerings. After exploring the architecture and key components, you will learn how to develop and execute a batch application. While gaining insights on the essential configurations and execution techniques for batch jobs, you will learn about the key technical implementations of the read, write, and processing features for different forms of data. Next, you will move on to the key features such as transaction management, job flows, job monitoring, and data sharing across the steps of the executing jobs. Finally, you will learn how Spring Batch can integrate with diverse enterprise technologies and facilitate optimization and performance improvement with scaling and partitioning techniques.

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