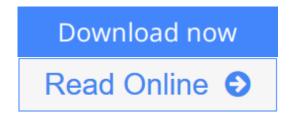# Building applications with Scala

By Diego Pacheco

Building applications with Scala By Diego Pacheco

Write modern, scalable, and reactive applications with the power of Scala

About This Book

- Delves into the intricacies of functional reactive programming with Scala
- Explores frameworks like Akka, Play and Slick used to develop efficient applications
- A step by step guide with plenty of examples showing practical implementation of essential concepts

Who This Book Is For

If you are a Java or JVM developer who wants to use Scala to build reactive functional applications for the JVM platform, then this book is for you. Prior knowledge of Java or functional programing would help. No Scala knowledge is required.

What You Will Learn

- Use Akka to create a chat service for your app
- Equip yourself with the techniques and tools to build reports and build database persistence with Scala and Slick
- Develop a customer-facing Rest API that makes use of Scala and Spray
- Make use of the Scala web development principles and scale up the architecture of your application
- Get familiar with the core principles and concepts of Functional Programming
- Use the Play framework to create models, controllers, and views
- Develop reactive backing frameworks by writing code with RxScala
- Discover what proper testing entails with Scala using behavior-driven development

In Detail

Scala is known for incorporating both object-oriented and functional

programming into a concise and extremely powerful package. However, creating an app in Scala can get a little tricky because of the complexity the language has. This book will help you dive straight into app development by creating a real, reactive, and functional application. We will provide you with practical examples and instructions using a hands-on approach that will give you a firm grounding in reactive functional principles.

The book will take you through all the fundamentals of app development within Scala as you build an application piece by piece. We've made sure to incorporate everything you need from setting up to building reports and scaling architecture. This book also covers the most useful tools available in the Scala ecosystem, such as Slick, Play, and Akka, and a whole lot more. It will help you unlock the secrets of building your own up-to-date Scala application while maximizing performance and scalability.

Style and approach

This book takes a step-by-step approach to app development with Scala. It will place special emphasis on functional language. It will teach you the core benefits of Scala and the fundamentals of functional programming by developing a robust application.

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Editorial Review

About the Author

Diego Pacheco is an experienced software architect and DevOps practitioner with over 10 years of solid experience. He has led architecture teams using open source solutions such as Java, Scala, Amazon Web Services (AWS), Akka, Apache Cassandra, Redis, ActiveMQ, NetflixOSS Stack - Simian Army, RxJava, Karyon, Eureka, and Ribbon on cig customers in Brazil, London, Barcelona, India, and the USA. Diego has a passion for functional programming and is currently working as a software architect/agile coach with Scala, Akka, and NetflixOSS.

During his free time, he enjoys gaming, blogging, and playing wicked tunes on his guitar. You can check out his blog titled as Diego Pacheco Tech blog.

Some of his core skills include the following:

- Architecture design and architecture coding for high scalable systems
- Distributed systems using SOA and microservices principles, tools, and techniques
- Performance tuning and DevOps engineering
- Functional programming and Scala
- Agile coaching and servant leadership for architecture teams
- Consultancy on development practices with XP/Kanban

More about him can be found at LinkedIn and GitHub. You can also see his presentations at Slideshare.

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