



# Clojure Web Development Essentials

By *Ryan Baldwin*

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## Clojure Web Development Essentials By Ryan Baldwin

**Develop your own web application with the effective use of the Clojure programming language**

### About This Book

- Use Clojure to create robust, ready-to-be deployed web applications
- Get to grips with Clojure through successive implementation of applications using new features
- Explore the in-depth concepts of Clojure, such as templating, request routing, input validation, and database transactions, and utilize Java interoperability

### Who This Book Is For

This book is for anyone who's worked with Clojure and wants to use it to start developing applications for the Web. Experience or familiarity with basic Clojure syntax is a must, and exposure to Leiningen (or other similar build tools such as Maven) would be helpful.

### What You Will Learn

- Generate a fully runnable web application using the Luminus Leiningen application template
- Explore the basics of the underlying Ring framework and the Ring Server
- Configure URL Routing, Logging, and some testing basics
- Create new web pages using the Selmer template rendering library
- Validate user-submitted form data
- Store and retrieve data to and from a database
- Configure, package, and deploy the finished application

### In Detail

Functional programming enables developers to create and deploy applications quickly and easily. Using the Clojure programming language and the Leiningen build tool, this book teaches you how to leverage various Clojure libraries into

the building blocks of a web-based application.

We'll start by generating a new, fully runnable, baseline web application using the Leiningen Luminus template. From there we'll examine the different pieces that compose our application, and learn the basics of the underlying Ring framework. Subsequent chapters will focus on each technology and leverage those technologies to build additional functionality into our application. You'll learn how to validate user submitted data, authentication, account creation, how to interact with a database, and more. Finally, we'll create an environment configuration and deploy our app.

By the end of this book you'll have created a full fledged application from start to finish, and you'll have the requisite skills to develop an efficient and robust web application.



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### Editorial Review

#### About the Author

##### **Ryan Baldwin**

Ryan Baldwin is a theatre major turned computer science geek. Hailing from the prairies of Western Canada, Ryan has been developing software on a wide array of platforms and technologies since 2001. Once, he wrote a crazy system application that compiled XSD Schema Docs into XAML forms that performed two-way binding with underlying XML documents in .NET WPF. Why? Because it had to be done. Another time, he worked on a project that mashed many social networks into one gigantic thing that essentially allowed users to find out all of their indirect connections. It was eventually shelved. In 2012, he relocated to Toronto, where he works with the University Health Network, developing systems and tools that facilitate patient information exchange. You can often find him wearing headphones and jittering in coffee shops.

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