

Building Web Applications With Erlang Drmichalore

Get moving with Dart, the development platform that helps you build high-performance HTML5 apps for the modern Web. With this guide, you'll take a hands-on tour of the Dart language, libraries, and tools—including its editor and virtual machine—for developing structured, fast, and maintainable web apps that run on both the client and the server. Written by developer advocates at Google, this updated edition covers Dart 1.0. Google designed Dart to boost performance and help developers work more efficiently. This book shows you how to build everything from simple scripts to complex apps that work well in today's browsers. Build web apps with the object-oriented Dart language, and compile your code to JavaScript

Delve into language features, from optional types and method cascades to named constructors

Create, launch, and debug web and command-line apps with Dart Editor

Explore Dart APIs, including dart:core, dart:html, dart:io, dart:convert, and dart:mirrors

Use tools such as Dartium, the Chromium-based browser that can run Dart apps natively

Walk through Dartiverse Search, a client-server app that combines useful and fun language and API features

Want all the technical content in one file or PDF...? Here is the ETECH Magazine from the EXPLOGRAMMERS Group. Get your solutions either relate to technical, careers, latest trends in the software market, all these in one power packed file. COMPILED BY EXPLOGRAMMERS.. Links to each article are provided after it. Refer to the link if more answers required or simply mail us at etechqa@outlook.com. Download Full Ebook at www.explogrammers.blogspot.com

Handbook of Open Source Tools introduces a comprehensive collection of advanced open source tools useful in developing software applications. The book contains information on more than 200 open-source tools which include software construction utilities for compilers, virtual-machines, database, graphics, high-performance computing, OpenGL, geometry, algebra, graph theory , GUIs and more. Special highlights for software construction utilities and application libraries are included. Each tool is covered in the context of a real like application development setting. This unique handbook presents a comprehensive discussion of advanced tools, a valuable asset used by most application developers and programmers; includes a special focus on Mathematical Open Source Software not available in most Open Source Software books, and introduces several tools (eg ACL2, CLIPS, CUDA, and COIN) which are not known outside of select groups, but are very powerful. Handbook of Open Source Tools is designed for application developers and programmers working with Open Source Tools. Advanced-level students concentrating on Engineering, Mathematics and Computer Science will find this reference a valuable asset as well.

Learn how to use messaging technologies to build responsive and resilient applications for mobile devices and web browsers. With this hands-on guide, you'll use the STOMP and MQTT messaging protocols to write iOS and web

applications capable of sending and receiving GPS and device sensor data, text messages, and alerts. Messaging protocols are not only simple to use, but also conserve network bandwidth, device memory, and batteries. Using this book's step-by-step format, author Jeff Mesnil helps you work with Objective-C and JavaScript libraries, as well as the protocols. All you need to get started are basic programming skills. Understand basic messaging concepts and composition Learn two common messaging models: point-to-point and publish/subscribe Use STOMP to write an iOS application that sends GPS data, and a web app that consumes the data Build an iOS app with MQTT that tracks and broadcasts device motion data, and a web app that displays the data and sends alerts Extend STOMP to filter, prioritize, persist, and expire messages Take a complete tour of STOMP and MQTT, including features not used in the book's sample apps

Learn to build a high-performance functional prototype of a voting web application from scratch using Elixir and Phoenix Key Features Build a strong foundation in Functional-Programming techniques while learning to build compelling web applications Understand the Elixir Concurrency and parallelization model to build high-performing blazingly fast applications Learn to test, debug and deploy your web applications using Phoenix framework Book Description Phoenix is a modern web development framework that is used to build API's and web applications. It is built on Elixir and runs on Erlang VM which makes it much faster than other options. With Elixir and Phoenix, you build your application the right way, ready to scale and ready for the increasing demands of real-time web applications. This book covers the basics of the Phoenix web framework, showing you how to build a community voting application, and is divided into three parts. In the first part, you will be introduced to Phoenix and Elixir and understand the core terminologies that are used to describe them. You will also learn to build controller pages, store and retrieve data, add users to your app pages and protect your database. In the second section you will be able to reinforce your knowledge of architecting real time applications in phoenix and not only debug these applications but also diagnose issues in them. In the third and final section you will have the complete understanding of deploying and running the phoenix application and should be comfortable to make your first application release By the end of this book, you'll have a strong grasp of all of the core fundamentals of the Phoenix framework, and will have built a full production-ready web application from scratch. What you will learn Learn Phoenix Framework fundamentals and v1.3's new application structure Build real-time applications with channels and presence Utilize GenServers and other OTP fundamentals to keep an application stable Track users as they sign in and out of chat with Phoenix's built-in presence functionality Write your own database interaction code that is safe, bug-free, and easy to work with Explore testing and debugging methodologies to understand a real software development lifecycle for a Phoenix application Deploy and run your Phoenix application in production Who this book is for This book is for

people with a basic knowledge of Elixir, who want to start building web applications. Prior experience with web technologies is assumed.

Learn how to build key aspects of web, cloud, and mobile solutions by combining F# with various .NET and open source technologies. With helpful examples, this hands-on book shows you how to tackle concurrency, asynchrony, and other server-side challenges. You'll quickly learn how to be productive with F#, whether you want to integrate the language into your existing web application or use it to create the next Twitter. If you're a mid- to senior-level .NET programmer, you'll discover how this expressive functional-first language helps you write robust, maintainable, and reusable solutions that scale easily and target multiple devices. Use F# with ASP.NET MVC, ASP.NET Web API, WCF, Windows Azure, HTML5, CSS3, jQuery Mobile, and other tools Build next-generation ASP.NET MVC 4 web applications, using F# to do the heavy lifting on the server Create WCF SOAP and HTTP web services Develop F# web applications and services that run on Windows Azure Build scalable solutions that allow reuse by mobile and web front-ends Use F# with the WebSharper and Pit frameworks to build end-to-end web stacks

Summary Phoenix is a modern web framework built for the Elixir programming language. Elegant, fault-tolerant, and performant, Phoenix is as easy to use as Rails and as rock-solid as Elixir's Erlang-based foundation. Phoenix in Action builds on your existing web dev skills, teaching you the unique benefits of Phoenix along with just enough Elixir to get the job done. Foreword by Sasa Juric, author of Elixir in Action, Second Edition. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Modern web applications need to be efficient to develop, lightning fast, and unfailingly reliable. Phoenix, a web framework for the Elixir programming language, delivers on all counts. Elegant and intuitive, Phoenix radically simplifies the dev process. Built for concurrency, Phoenix channels make short work of developing real-time applications. And as for reliability, Phoenix apps run on the battle-tested Erlang VM, so they're rock solid! About the Book Phoenix in Action is an example-based book that teaches you to build production-quality web apps. You'll handle business logic, database interactions, and app designs as you progressively create an online auction site. As you go, you'll build everything from the core components to the real-time user interactions where Phoenix really shines. What's inside Functional programming in a web environment An introduction to Elixir Database interactions with Ecto Real-time communication with channels About the Reader For web developers familiar with a framework like Rails or ASP.NET. No experience with Elixir or Phoenix required. About the Author Geoffrey Lessel is a seasoned web developer who speaks and blogs about Elixir and Phoenix. Table of Contents PART 1 - GETTING STARTED Ride the Phoenix Intro to Elixir A little Phoenix overview PART 2 - DIVING IN DEEP Phoenix is not your application Elixir application structure Bring in Phoenix Making changes

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page application using Vue.js 2 and Spring 5 Practice concept, logical, and physical data modeling Design, implement, secure, and test RESTful API Add test cases to improve reliability of an application Monitor and deploy your application to production Who this book is for Building Applications with Spring 5.0 and Vue.js 2.0 is for you if you are developer who is new to Vue.js or Spring. It is assumed that you have some knowledge of HTML, CSS, and Java.

Whether you need a new tool or just inspiration, *Seven Web Frameworks in Seven Weeks* explores modern options, giving you a taste of each with ideas that will help you create better apps. You'll see frameworks that leverage modern programming languages, employ unique architectures, live client-side instead of server-side, or embrace type systems. You'll see everything from familiar Ruby and JavaScript to the more exotic Erlang, Haskell, and Clojure. The rapid evolution of web apps demands innovative solutions: this survey of frameworks and their unique perspectives will inspire you and get you thinking in new ways to meet the challenges you face daily. This book covers seven web frameworks that are influencing modern web applications and changing web development: Sinatra, CanJS, AngularJS, Ring, Webmachine, Yesod, Immutant. Each of these web frameworks brings unique and powerful ideas to bear on building apps. Embrace the simplicity of Sinatra, which sheds the trappings of large frameworks and gets back to basics with Ruby. Live in the client with CanJS, and create apps with JavaScript in the browser. Be declarative with AngularJS; say what you want, not how to do it, with a mixture of declarative HTML and JavaScript. Turn the web into data with Ring, and use Clojure to make data your puppet. Become a master of advanced HTTP with Webmachine, and focus the power of Erlang. Prove web theorems with Yesod; see how Haskell's advanced type system isn't just for academics. Develop in luxury with Immutant, an enlightened take on the enterprise framework. *Seven Web Frameworks* will influence your work, no matter which framework you currently use. Welcome to a wider web. What You Need: You'll need Windows, MacOS X or Linux, along with your favorite web browser. Each chapter will cover what you need to download and which language versions are required. Elixir is an excellent language if you want to learn about functional programming, and with this hands-on introduction, you'll discover just how powerful and fun Elixir can be. This language combines the robust functional programming of Erlang with a syntax similar to Ruby, and includes powerful features for metaprogramming. This book shows you how to write simple Elixir programs by teaching one skill at a time. Once you pick up pattern matching, process-oriented programming, and other concepts, you'll understand why Elixir makes it easier to build concurrent and resilient programs that scale up and down with ease. Get comfortable with IEx, Elixir's command line interface Discover atoms, pattern matching, and guards: the foundations of your program structure Delve into the heart of Elixir with recursion, strings, lists, and higher-order functions Create processes, send messages among them, and apply pattern matching to incoming messages Store and manipulate structured data with Erlang Term Storage and the Mnesia database Build resilient applications with Erlang's Open Telecom Platform Define macros with Elixir's metaprogramming tools

An extensive, practical guide that explains how to adapt WordPress features, both conventional and trending, for web applications. This book is intended for WordPress developers and designers who have the desire to go beyond conventional website development to develop quality web applications within a limited time frame and for maximum profit. Experienced web developers who are looking for a framework for rapid application development will also find this to be a useful resource. Prior knowledge with of WordPress is preferable as the main focus will be on explaining methods for adapting WordPress techniques for web application development rather than explaining basic skills with WordPress.

Erlang is the language of choice for programmers who want to write robust, concurrent applications, but its strange syntax and functional

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design can intimidate the uninitiated. Luckily, there's a new weapon in the battle against Erlang-phobia: Learn You Some Erlang for Great Good! Erlang maestro Fred Hébert starts slow and eases you into the basics: You'll learn about Erlang's unorthodox syntax, its data structures, its type system (or lack thereof!), and basic functional programming techniques. Once you've wrapped your head around the simple stuff, you'll tackle the real meat-and-potatoes of the language: concurrency, distributed computing, hot code loading, and all the other dark magic that makes Erlang such a hot topic among today's savvy developers. As you dive into Erlang's functional fantasy world, you'll learn about: –Testing your applications with EUnit and Common Test –Building and releasing your applications with the OTP framework –Passing messages, raising errors, and starting/stopping processes over many nodes –Storing and retrieving data using Mnesia and ETS –Network programming with TCP, UDP, and the inet module –The simple joys and potential pitfalls of writing distributed, concurrent applications Packed with lighthearted illustrations and just the right mix of offbeat and practical example programs, Learn You Some Erlang for Great Good! is the perfect entry point into the sometimes-crazy, always-thrilling world of Erlang.

This book explains why dapps (decentralized applications) will become more widely used and profitable in the future and shows how to use existing tools to create a working dapp.

Building Web Applications with Erlang

Build real-world, production-ready solutions by harnessing the powerful features of Go About This Book An easy-to-follow guide that provides everything a developer needs to know to build end-to-end web applications in Go Write interesting and clever, but simple code, and learn skills and techniques that are directly transferable to your own projects A practical approach to utilize application scaffolding to design highly scalable programs that are deeply rooted in go routines and channels Who This Book Is For This book is intended for developers who are new to Go, but have previous experience of building web applications and APIs. What You Will Learn Build a fully featured REST API to enable client-side single page apps Utilize TLS to build reliable and secure sites Learn to apply the nuances of the Go language to implement a wide range of start-up quality projects Create websites and data services capable of massive scale using Go's net/http package, exploring RESTful patterns as well as low-latency WebSocket APIs Interact with a variety of remote web services to consume capabilities ranging from authentication and authorization to a fully functioning thesaurus Explore the core syntaxes and language features that enable concurrency in Go Understand when and where to use concurrency to keep data consistent and applications non-blocking, responsive, and reliable Utilize advanced concurrency patterns and best practices to stay low-level without compromising the simplicity of Go itself In Detail Go is an open source programming language that makes it easy to build simple, reliable, and efficient software. It is a statically typed language with syntax loosely derived from that of C, adding garbage collection, type safety, some dynamic-typing capabilities, additional built-in types such as variable-length arrays and key-value maps, and a large standard library. This course starts with a walkthrough of the topics most critical to anyone building a new web application. Whether it's keeping your

architectures to handle deployment, monitoring, and operations

This book is an in-depth introduction to Erlang, a programming language ideal for any situation where concurrency, fault tolerance, and fast response is essential. Erlang is gaining widespread adoption with the advent of multi-core processors and their new scalable approach to concurrency. With this guide you'll learn how to write complex concurrent programs in Erlang, regardless of your programming background or experience. Written by leaders of the international Erlang community -- and based on their training material -- Erlang Programming focuses on the language's syntax and semantics, and explains pattern matching, proper lists, recursion, debugging, networking, and concurrency. This book helps you: Understand the strengths of Erlang and why its designers included specific features Learn the concepts behind concurrency and Erlang's way of handling it Write efficient Erlang programs while keeping code neat and readable Discover how Erlang fills the requirements for distributed systems Add simple graphical user interfaces with little effort Learn Erlang's tracing mechanisms for debugging concurrent and distributed systems Use the built-in Mnesia database and other table storage features Erlang Programming provides exercises at the end of each chapter and simple examples throughout the book.

This book is intended for users with some knowledge of the Elixir language syntax and basic data types/structures. Although this is a cookbook and no sequential reading is required, the book's structure will allow less advanced users who follow it to be gradually exposed to some of Elixir's features and concepts specific to functional programming. To get the most out of this book, you need to be well versed with Erlang.

Erlang is emerging as a leading language for concurrent programming in mission-critical enterprise environments where applications must deliver exceptional reliability, availability, and scalability. It's already used by organizations ranging from Facebook to Amazon, and many others are adopting or considering it. As a functional language, however, Erlang is radically different from conventional object-oriented languages like C++ and Java. This book quickly brings experienced object-oriented programmers up to speed with both Erlang and the principles of functional programming. Jerry Jackson thoroughly explains Erlang's key concepts, principles, and features, bridging the conceptual gaps that often frustrate object developers. Next, he shows how to use Erlang to build massively-scalable real-world systems with up to "nine nines" availability: that is, up to 99.9999999% uptime. Coverage includes: What Erlang is, and why it offers so much potentia What it means to be "concurrency-oriented, and how to design concurrency-oriented applications How to use functional features, pattern matching, and Erlang's standard libraries How to manage concurrency and mutable state, and work with the Mnesia database How to write distributed software with Erlang How to use powerful additional capabilities built into Erlang's Open Telecom Platform (OTP) How to interact with Java, C, and other languages How to

use Erlang's bundled web server and debugger, and much more

Build It with Nitrogen: the Fast Off the Block Erlang Web Framework guides web developers step-by-step through construction of highly reliable web applications. This easy to-read book assumes minimal Linux or JavaScript skills; guides the reader through 12 hands-on projects. Each project builds on the last toward high-level competency. Readers learn Erlang as they go. Nitrogen simplifies development of web applications, making simple things easy and difficult things manageable. Erlang delivers the high availability, massively scalable, soft real-time performance required by banking, e-commerce, computer telephony, and instant messaging applications.

"Working with REST and Web-Sockets on Yaws"--Cover.

An in-depth guide to exploring the design, architecture, and techniques behind building sophisticated, scalable, and maintainable single-page applications in JavaScript About This Book Build large-scale, feature-complete SPAs by leveraging widely used tools and techniques. Gain a solid understanding of architecture and SPA design to build applications using the library or framework of your choice. Explore the various facets of SPA development to build web apps that are fast, scalable, and easy to test. Who This Book Is For This book is ideal for JavaScript developers who want to build complex single-page applications in JavaScript. Some basic understanding of SPA concepts will be helpful but not essential. What You Will Learn Organize your development environment using the command line with NPM, Bower, and Grunt. Choose an accurate design pattern for your app Understand modular JavaScript programming and Node.js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook, Twitter, and LinkedIn Test your app, both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single-page web applications—or SPAs, as they are commonly referred to—are quickly becoming the de facto standard for web app development. The fact that a major part of the app runs inside a single web page makes it very interesting and appealing. Also, the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser. This book will take your JavaScript development skills to the next level by teaching you to create a single-page application within a full-stack JavaScript environment. Using only JavaScript, you can go from being a front-end developer to a full-stack application developer with relative ease. You will learn to cross the boundary from front-end development to server-side development through the use of JavaScript on both ends. Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB, writing a JavaScript powered REST API with Node.js and Express, and designing a front-end powered by AngularJS. This book will teach you to leverage the MEAN stack to do everything from document database design, routing REST web API requests, data-binding within views, and adding authentication and security to building a full-fledged, complex, single-page web application. In addition to building a full-stack JavaScript app, you will learn to test it with JavaScript-powered testing tools such as Mocha, Karma, and Jasmine. Finally, you will learn about deployment and scaling so that you can launch your own apps into the real world. Style and approach Following a structured approach, this book helps readers gain expertise in SPA development. Its thorough coverage of SPA architecture and design, along with practical use cases, provides readers with a clear path to building applications with the library of their choice. For readers who are afraid to take the plunge straightaway, the book also offers step-by-step guidance on developing a complex web app.

If you're new to Erlang, its functional style can seem difficult, but with help from this hands-on introduction, you'll scale the learning curve and discover how enjoyable, powerful, and fun this language can be. In this updated second edition, author Simon St.Laurent shows you how

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to write simple Erlang programs by teaching you one skill at a time. You'll learn about pattern matching, recursion, message passing, process-oriented programming, and establishing pathways for data rather than telling it where to go. By the end of your journey, you'll understand why Erlang is ideal for concurrency and resilience. Get cozy with Erlang's shell, its command line interface Define functions, using the fun tool, to represent repeated calculations Discover atoms, pattern matching, and guards: the foundations of your program structure Delve into the heart of Erlang processing with recursion, strings, lists, and higher-order functions Create processes, send messages among them, and apply pattern matching to incoming messages Store and manipulate structured data with Erlang Term Storage and the Mnesia database Learn about Open Telecom Platform, Erlang's open source libraries and tools

Pro Website Development and Operations gives you the experience you need to create and operate a large-scale production website. Large-scale websites have their own unique set of problems regarding their design—problems that can get worse when agile methodologies are adopted for rapid results. Managing large-scale websites, deploying applications, and ensuring they are performing well often requires a full scale team involving the development and operations sides of the company—two departments that don't always see eye to eye. When departments struggle with each other, it adds unnecessary complexity to the work, and that result shows in the customer experience. Pro Website Development and Operations shows you how to streamline the work of web development and operations - incorporating the latest insights and methodologies of DevOps - so that your large-scale website is up and running quickly, with little friction and extreme efficiency between divisions. This book provides critical knowledge for any developer engaged in delivering the business and software engineering goals required to create and operate a large-scale production website. It addresses how developers can collaborate effectively with business and engineering teams to ensure applications are smoothly transitioned from product inception to implementation, and are properly deployed and managed. Pro Website Development and Operations provides unique insights into how systems, code, and process can all work together to make large-scale website development and operations ultra-efficient.

Socket.io Real-time Web Application Development.

If you are a JavaScript developer with a basic knowledge of WebRTC and software development, but want to explore how to use it in more depth, this book is for you.

This book is the "Hello, World" tutorial for building products, technologies, and teams in a startup environment. It's based on the experiences of the author, Yevgeniy (Jim) Brikman, as well as interviews with programmers from some of the most successful startups of the last decade, including Google, Facebook, LinkedIn, Twitter, GitHub, Stripe, Instagram, AdMob, Pinterest, and many others. Hello, Startup is a practical, how-to guide that consists of three parts: Products, Technologies, and Teams. Although at its core, this is a book for programmers, by programmers, only Part II (Technologies) is significantly technical, while the rest should be accessible to technical and non-technical audiences alike. If you're at all interested in startups—whether you're a programmer at the beginning of your career, a seasoned developer bored with large company politics, or a manager looking to motivate your engineers—this book is for you.

This book constitutes the thoroughly refereed post-conference proceedings of the 22nd International Symposium on Implementation and Applications of Functional Languages, IFL 2010, held in Alphen aan den Rijn, The Netherlands, in September 2010. The 13 revised full papers presented were carefully reviewed and were selected from 31 submissions. The IFL symposia bring together researchers and practitioners that are actively engaged in the implementation and the use of functional and function

based programming languages. Every year IFL provides a venue for the presentation and discussion of new ideas and concepts, of work in progress, and of publication-ripe results.

This book constitutes the refereed proceedings of the 12th International Conference on Integrated Formal Methods, IFM 2016, held in Reykjavik, Iceland, in June 2016. The 33 papers presented in this volume were carefully reviewed and selected from 99 submissions. They were organized in topical sections named: invited contributions; program verification; probabilistic systems; concurrency; safety and liveness; model learning; SAT and SMT solving; testing; theorem proving and constraint satisfaction; case studies.

Why choose Erlang for web applications? Discover the answer hands-on by building a simple web service with this book. If you're an experienced web developer who knows basic Erlang, you'll learn how to work with REST, dynamic content, web sockets, and concurrency through several examples. In the process, you'll see first-hand that Erlang is ideal for building business-critical services. Erlang was designed for fault-tolerant, non-stop telecom systems, and building applications with it requires a large set of skills. By the end of the book, you'll have the information you need to build a basic web service and get it running. Explore the power of Erlang and REST for building web services

- Serve static and dynamic content with the Yaws web server
- Use different methods for outputting data to user, such as encoding Erlang data structures into JSON or XML
- Build an application to listen for HTTP requests, process them, store data, and return useful data
- Go beyond the request-response model
- push data to clients with web sockets
- Use Erlang and Yaws to stream data from the server to a client

"A book which is truly needed and will help get Erlang to the next level." Francesco Cesarini, CEO of Erlang Solutions, author of Erlang Programming.

Introduction to Data Science and Machine Learning has been created with the goal to provide beginners seeking to learn about data science, data enthusiasts, and experienced data professionals with a deep understanding of data science application development using open-source programming from start to finish. This book is divided into four sections: the first section contains an introduction to the book, the second covers the field of data science, software development, and open-source based embedded hardware; the third section covers algorithms that are the decision engines for data science applications; and the final section brings together the concepts shared in the first three sections and provides several examples of data science applications.

This book gathers the peer-reviewed papers presented at the 8th edition of the International Workshop "Service Orientation in Holonic and Multi-Agent Manufacturing – SOHOMA'18" held at the University of Bergamo, Italy on June 11–12, 2018. The objective of the SOHOMA annual workshops is to foster innovation in smart and sustainable manufacturing and logistics systems by promoting new concepts, methods and solutions that use service orientation of agent-based control technologies with distributed intelligence. Reflecting the theme of SOHOMA'18: "Digital transformation of manufacturing with agent-based control and service orientation of Internet-scale platforms", the research included focuses on how the digital transformation, as advocated by the "Industry 4.0", "Industrial Internet of Things", "Cyber-Physical Production Systems" and "Cloud Manufacturing"

frameworks, improves the efficiency, agility and sustainability of manufacturing processes, products, and services, and how it relates to the interaction between the physical and informational worlds, which is implemented in the virtualization of products, processes and resources managed as services.

An end-to-end software development guide for the Java eco-system using the most advanced frameworks: Spring and Spring Boot. Learn the complete workflow by building projects and solving problems.

About This Book* Learn reactive programming by implementing a reactive application with Spring WebFlux* Create a robust and scalable messaging application with Spring messaging support* Get up-to-date with the defining characteristics of Spring Boot 2.0 in Spring Framework 5* Learn about developer tools, AMQP messaging, WebSockets, security, MongoDB data access, REST, and more* This collection of effective recipes serves as guidelines for Spring Boot application development

Who This Book Is For Java developers wanting to build production-grade applications using the newest popular Spring tools for a rich end-to-end application development experience.

What You Will Learn* Get to know the Spring Boot and understand how it makes creating robust applications extremely simple* Understand how Spring Data helps us add persistence in MongoDB and SQL databases* Implement a websocket to add interactive behaviors in your applications* Create powerful, production-grade applications and services with minimal fuss* Use custom metrics to track the number of messages published and consumed* Build anything from lightweight unit tests to fully running embedded web container integration tests* Learn effective testing techniques by integrating Cucumber and Spock* Use Hashicorp Consul and Netflix Eureka for dynamic Service Discovery

In Detail Spring Framework has become the most popular framework for Java development. It not only simplifies software development but also improves developer productivity. This book covers effective ways to develop robust applications in Java using Spring. The course is up made of three modules, each one having a take-away relating to building end-to-end java applications. The first module takes the approach of learning Spring frameworks by building applications. You will learn to build APIs and integrate them with popular frameworks such as AngularJS, Spring WebFlux, and Spring Data. You will also learn to build microservices using Spring's support for Kotlin. You will learn about the Reactive paradigm in the Spring architecture using Project Reactor. In the second module, after getting hands-on with Spring, you will learn about the most popular tool in the Spring ecosystem-Spring Boot. You will learn to build applications with Spring Boot, bundle them, and deploy them on the cloud. After learning to build applications with Spring Boot, you will be able to use various tests that are an important part of application development. We also cover the important developer tools such as AMQP messaging, websockets, security, and more. This will give you a good functional understanding of scalable development in the Spring ecosystem with Spring Boot. In the third and final module, you will tackle the most important challenges in Java application development with Spring Boot using practical recipes. Including recipes for testing, deployment, monitoring, and securing your applications. This module will also address the functional and technical requirements for building enterprise applications. By the end of the course you will be comfortable with using Spring and Spring Boot to develop Java applications and will have mastered the intricacies of production-grade applications.

Style and approach A simple step-by-step guide with practical

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examples to help you develop and deploy Spring and Spring Boot applications in the real-world.

Learn powerful JavaScript tools for exploiting HTML5 elements, and discover new methods for working with data, such as offline storage and multithreaded processing. Complete with code samples, this book is ideal for experienced JavaScript and mobile developers alike.

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