

## Rails Angular Postgres And Bootstrap Powerful

Developers power their projects with Python because it emphasizes readability, ease of use, and access to a meticulously maintained set of packages and tools. The language itself continues to improve with every release: writing in Python is full of possibility. But to maintain a successful Python project, you need to know more than just the language. You need tooling and instincts to help you make the most out of what's available to you. Use this book as your guide to help you hone your skills and sculpt a Python project that can stand the test of time. No matter your experience level or background, Python's batteries-included standard library and rich third-party ecosystem provide a solid foundation to build your projects on. With the right intuition and background knowledge, you can take advantage of all the power Python offers. Take a guided tour of some of Python's high points to craft a project that you can sustain and build on for a long time. Run static analysis tools to detect and eliminate classes of bugs before you run code. Experiment with Python's concurrency model and develop patterns for using Python's thread and process abstractions to their full potential. Introduce yourself to Python's type hinting system: mypy. Download and run third-party Python packages and do so safely without compromising on security. Debug code using Python's built in debugger, and try procedures out in the interactive console. Run your code under new versions of the Python interpreter to unlock performance and usability improvements. All along the way, sharpen your Python instincts so you can keep your code clean and reduce the chance of bugs. Mine Python for all you can by playing to its strengths and embracing patterns that harness its potential. What You Need: The book assumes you have some experience programming in any language (not necessarily Python). To run the code presented in the book, you'll need a Python environment which you can download from <https://www.python.org/downloads/>.

Learn Rails the way the Rails core team recommends it, along with the tens of thousands of developers who have used this broad, far-reaching tutorial and reference. If you're new to Rails, you'll get step-by-step guidance. If you're an experienced developer, get the comprehensive, insider information you need for the latest version of Ruby on Rails. The new edition of this award-winning classic is completely updated for Rails 5.1 and Ruby 2.4, with information on system testing, Webpack, and advanced JavaScript. Ruby on Rails helps you produce high-quality, beautiful-looking web applications quickly---you concentrate on creating the application, and Rails takes care of the details. Rails 5.1 brings many improvements, and this edition is updated to cover the new features and changes in best practices. We start with a step-by-step walkthrough of building a real application, and in-depth chapters look at the built-in Rails features. Follow along with an extended tutorial as you write a web-based store application. Eliminate tedious configuration and housekeeping; seamlessly incorporate Ajax and JavaScript; send emails and manage background jobs with ActiveJob; build real-time features using WebSockets and ActionCable. Test your applications as you write them using the built-in unit, integration, and system testing frameworks; internationalize your applications; and deploy your applications easily and securely. New in this edition is support for Webpack and advanced JavaScript, as well as Rails' new browser-based system testing. Rails 1.0 was released in December 2005. This book was there from the start, and didn't just evolve alongside Rails, it evolved with Rails. It has been developed in consultation with the Rails core team. In fact, Rails itself is tested against the code in this book. What You Need: All you need is a Windows, Mac OS X, or Linux machine to do development on. This book will take you through the steps to install Rails and its dependencies. If you aren't familiar with the Ruby programming language, this book contains a chapter that covers the basics necessary to understand the material in the book.

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Does your Rails code suffer from bloat, brittleness, or inaccuracy? Cure these problems with the regular application of test-driven development. You'll use Rails 5.1, Minitest 5, and RSpec 3.6, as well as popular testing libraries such as factory\_girl and Cucumber. Updates include Rails 5.1 system tests and Webpack integration. Do what the doctor ordered to make your applications feel all better. Side effects may include better code, fewer bugs, and happier developers. Your Ruby on Rails application is sick. Deadlines are looming, but every time you make the slightest change to the code, something else breaks. Nobody remembers what that tricky piece of code was supposed to do, and nobody can tell what it actually does. Plus, it has bugs. You need test-driven development: a process for improving the design, maintainability, and long-term viability of software. With both practical code examples and discussion of why testing works, this book starts with the most basic features delivered as part of core Ruby on Rails. Once you've integrated those features into your coding practice, work with popular third-party testing tools such as RSpec, Jasmine, Cucumber, and factory\_girl. Test the component parts of a Rails application, including the back-end model logic and the front-end display logic. With Rails examples, use testing to enable your code to respond better to future change. Plus, see how to handle real-world testing situations. This new edition has been updated to Rails 5.1 and RSpec 3.6 and contains full coverage of new Rails features, including system tests and the Webpack-based JavaScript setup. What You Need: Ruby 2.4, Rails 5.1

Rails, Angular, Postgres, and Bootstrap Powerful, Effective, Efficient, Full-Stack Web Development Pragmatic Bookshelf

**Summary** The best way to learn microservices development is to build something! Bootstrapping Microservices with Docker, Kubernetes, and Terraform guides you from zero through to a complete microservices project, including fast prototyping, development, and deployment. You'll get your feet wet using industry-standard tools as you learn and practice the practical skills you'll use for every microservices application. Following a true bootstrapping approach, you'll begin with a simple, familiar application and build up your knowledge and skills as you create and deploy a real microservices project. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. **About the technology** Taking microservices from proof of concept to production is a complex, multi-step operation relying on tools like Docker, Terraform, and Kubernetes for packaging and deployment. The best way to learn the process is to build a project from the ground up, and that's exactly what you'll do with this book! **About the book** In Bootstrapping Microservices with Docker, Kubernetes, and Terraform, author Ashley Davis lays out a comprehensive approach to building microservices. You'll start with a simple design and work layer-by-layer until you've created your own video streaming application. As you go, you'll learn to configure cloud infrastructure with Terraform, package microservices using Docker, and deploy your finished project to a Kubernetes cluster. **What's inside** Developing and testing microservices applications Working with cloud providers Applying automated testing Implementing infrastructure as code and setting up a continuous delivery pipeline Monitoring, managing, and troubleshooting **About the reader** Examples are in JavaScript. No experience with microservices, Kubernetes, Terraform, or Docker required. **About the author** Ashley Davis is a software developer, entrepreneur, stock trader, and the author of Manning's Data Wrangling with JavaScript. **Table of Contents** 1 Why microservices? 2 Creating your first microservice 3 Publishing your first microservice 4 Data management for microservices 5 Communication between microservices 6 Creating your production environment 7 Getting to continuous delivery 8 Automated testing for microservices 9 Exploring FlixTube 10 Healthy microservices 11 Pathways to scalability

11 simple practices a software engineer can apply to be more a more effective contributor and more productive team member. Included are personal processes for fixing bugs and implementing new features, tips for writing, interviewing, and time management, as well as guides for bootstrapping new projects, making technical arguments, and leading a team.

Effectively learn and apply software development and engineering techniques to web application development using Rails 6 with this accelerated tutorial. This book teaches modern engineering practices including git flow, containerization, debugging, testing, and deployment. Along the way, you'll see how to build a social network application and then deploy it on a cloud provider such as Amazon Web Services. After reading and using this book, you'll be able to effectively build and deploy your Rails application to the cloud. You'll also have used the Ruby on Rails framework to carry out the rapid development of an idea into a product without sacrificing quality. **What You Will Learn** Use the Ruby on Rails 6 web development framework Integrate Docker with your Ruby on Rails code Apply software engineering techniques to learning the Rails framework Design, build, and deploy a social networking application to the Amazon cloud **Who This Book Is For** Beginners with at least some prior programming experience. Ruby experience is helpful, but not required.

**Summary** A developer-focused guide to writing applications using Spring Boot. You'll learn how to bypass the tedious configuration steps so that you can concentrate on your application's behavior. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. **About the Technology** The Spring Framework simplifies enterprise Java development, but it does require lots of tedious configuration work. Spring Boot radically streamlines spinning up a Spring application. You get automatic configuration and a model with established conventions for build-time and runtime dependencies. You also get a handy command-line interface you can use to write scripts in Groovy. Developers who use Spring Boot often say that they can't imagine going back to hand configuring their applications. **About the Book** Spring Boot in Action is a developer-focused guide to writing applications using Spring Boot. In it, you'll learn how to bypass configuration steps so you can focus on your application's behavior. Spring expert Craig Walls uses interesting and practical examples to teach you both how to use the default settings effectively and how to override and customize Spring Boot for your unique environment. Along the way, you'll pick up insights from Craig's years of Spring development experience. **What's Inside** Develop Spring apps more efficiently Minimal to no configuration Runtime metrics with the Actuator **Covers** Spring Boot 1.3 **About the Reader** Written for readers familiar with the Spring Framework. **About the Author** Craig Walls is a software developer, author of the popular book Spring in Action, Fourth Edition, and a frequent speaker at conferences. **Table of Contents** Bootstarting Spring Developing your first Spring Boot application Customizing configuration Testing with Spring Boot Getting Groovy with the Spring Boot CLI Applying Grails in Spring Boot Taking a peek inside with the Actuator Deploying Spring Boot applications **APPENDIXES** Spring Boot developer tools Spring Boot starters Configuration properties Spring Boot dependencies

Welcome to this one-stop-shop for learning Angular 9. Pro Angular 9 is the most concise and comprehensive guide available, giving you the knowledge you need to take full advantage of this popular framework for building your own dynamic JavaScript applications. The fourth edition of this popular guide explains how to get the most from Angular 9, starting with an in-depth overview of the MVC pattern and presenting the range of benefits it can offer. From there, you will begin learning how to use Angular in your projects, starting with the nuts-and-bolts concepts, and progressing on to more advanced and sophisticated features. Each topic in this full-color book provides you with precisely enough learning and detail to be effective. In true Adam Freeman style, the most important features are given full court press treatment, while also addressing common problems and how to avoid them. **What You Will Learn:** Gain a solid architectural understanding of the MVC Pattern Create rich and dynamic web app clients using Angular 9 Use the ng tools to create and build an Angular project Extend and customize Angular Acquire skills to unit test your Angular projects **Who This Book Is For:** This book is for web developers who want to create rich client-side applications. Foundational knowledge of HTML and JavaScript is recommended. "Adam's books provide a finely tuned blend of architectural overview, technical depth, and experience-born wisdom. His clear, concise writing style, coupled with project driven real world examples, make me comfortable recommending his books to a broad audience, ranging from developers working with a technology for the first time to seasoned professionals who need to learn a new skill quickly." Keith Dublin, Solution Principal, Slalom Consulting "Adam's books are the print version of a chat bot. His investment in learning how developers learn pays off in dividends, making this one of the most comprehensive resources available. Novices and experienced professionals alike will gain knowledge from the accessible and insightful material." Mark Donile, Software Engineer, MS CS

**Summary** Angular in Action teaches you everything you need to build production-ready Angular applications. Thoroughly practical and packed with tricks and tips, this hands-on tutorial is perfect for web devs ready to build web applications that can handle whatever you throw at them. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. **About the Technology** Angular makes it easy to deliver amazing web apps. This powerful JavaScript platform provides the tooling to manage your project, libraries to help handle most common tasks, and a rich ecosystem full of third-party capabilities to add as needed. Built with developer productivity in mind, Angular boosts your efficiency with a modern component architecture, well-constructed APIs, and a rich community. **About the Book** Angular in Action teaches you everything you need to build production-ready Angular applications. You'll start coding immediately, as you



move from the basics to advanced techniques like testing, dependency injection, and performance tuning. Along the way, you'll take advantage of TypeScript and ES2015 features to write clear, well-architected code. Thoroughly practical and packed with tricks and tips, this hands-on tutorial is perfect for web devs ready to build web applications that can handle whatever you throw at them. What's Inside Spinning up your first Angular application A complete tour of Angular's features Comprehensive example projects Testing and debugging Managing large applications About the Reader Written for web developers comfortable with JavaScript, HTML, and CSS. About the Author Jeremy Wilken is a Google Developer Expert in Angular, Web Technologies, and Google Assistant. He has many years of experience building web applications and libraries for eBay, Teradata, and VMware. Table of Contents Angular: a modern web platform Building your first Angular app App essentials Component basics Advanced components Services Routing Building custom directives and pipes Forms Testing your application Angular in production

Achieve awesome user experiences and performance with simple, maintainable code! Embrace the full stack of web development, from styling with Bootstrap, building an interactive user interface with Angular 4, to storing data quickly and reliably in PostgreSQL. With this fully revised new edition, take a holistic view of full-stack development to create usable, high-performing applications with Rails 5.1. Rails is a great tool for building web applications, but it's not the best at everything. Embrace the features built into your database. Learn how to use front-end frameworks. Seize the power of the application stack through Angular 4, Bootstrap, and PostgreSQL. When used together, these powerful and easy-to-use tools will open you to a new world of possibilities. This second edition is updated to cover Angular - a completely reworked front-end framework - and dives into new Postgres 9.6 features such as UPSERT. Also new is Webpack coverage, to develop the front-end code for your Rails application. Create a usable and attractive login form using Bootstrap's styles, while ensuring the database table backing it is secure using Postgres' check constraints. See how creating an advanced Postgres index for a case-insensitive search speeds up your back end - enabling you to create a dynamic user experience using Angular 4. Create reusable components that bring Bootstrap and Angular together and effectively use materialized views for caching within Postgres. Get your front end working with Webpack, use Postgres' features from migrations, and write unit tests for all of it. All of this within Rails 5.1. You'll gain the confidence to work at every level of the application stack, bringing the right solution to every problem. What You Need: This book covers Postgres 9.5, Rails 5, and Ruby 2.3. You should have some experience with basic Rails concepts and a cursory understanding of JavaScript, CSS, and SQL, but by no means need to be an expert. You'll learn how to install Postgres on your computer or use a free version of it in the cloud.

Docker does for DevOps what Rails did for web development--it gives you a new set of superpowers. Gone are "works on my machine" woes and lengthy setup tasks, replaced instead by a simple, consistent, Docker-based development environment that will have your team up and running in seconds. Gain hands-on, real-world experience with a tool that's rapidly becoming fundamental to software development. Go from zero all the way to production as Docker transforms the massive leap of deploying your app in the cloud into a baby step. Docker makes life as a Ruby and Rails developer easier. It helps build, ship, and run your applications, solving major problems you face every day. It allows you to run applications at scale, adding new resources as needed. Docker provides a reliable, consistent environment that's guaranteed to work the same everywhere. Docker lets you do all things DevOps without needing a PhD in infrastructure and operations. Want to spin up a cluster to run your app? No problem. Scale it up or down at will? You bet. Start by running a Ruby script without having Ruby installed on the local machine. Then Dockerize a Rails application and run it using containers, including creating your own custom Docker images tailored for running Rails apps. Describe your app declaratively using Docker Compose, specifying the software dependencies along with everything needed to run the application. Then set up continuous integration, as well as your deployment pipeline and infrastructure. Along the way, find out the best practices for using Docker in development and production environments. This book gives you a solid foundation on using Docker and fitting it into your development workflow and deployment process. What You Need: All you need is a Windows, Mac OS X or Linux machine to do development on. This book guides you through the process of installing Docker. Some basic familiarity with Linux/Unix is recommended even if you're using a Windows machine.

Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

The Python Quick Syntax Reference is the "go to" book that contains an easy to read and use guide to Python programming and development. This condensed code and syntax reference presents the Python language in a well-organized format designed to be used time and again. You won't find jargon, bloated samples, case studies, or history of Hello World and computer theory in this handy reference. This Python syntax reference is packed with useful information and is a must-have for any Python developer.

The road to Ruby mastery is paved with blocks, procs, and lambdas. To be a truly effective Ruby programmer, it's not enough just to understand these features - you need to know how to use them in practice. Discover how to write code that is elegant, expressive, and a joy to use, and gain a deep understanding of these concepts so you can work with third-party gems and libraries more easily. Whether you are completely new to Ruby or a seasoned Rubyist, you'll find good use for these concepts in your code. Ruby developers use the Ruby language as the yardstick for expressivity, flexibility, and elegance - and a large part of this is due to blocks, lambdas, and procs. These language features make Ruby one of the most beautiful and pleasant languages to work with. Learn how to understand and craft code that will take you closer to Ruby mastery. Start with the basics of closures and then dive into blocks, as you learn about the patterns that involve blocks, and how they are used in real-world code. Then create and use procs and lambdas. Finally, build your own lazy enumerables with advanced Ruby features such as fibers and generators. Along the way, work with computer science concepts such as closures, free variables and first-class functions. Spot a closure easily. Identify the patterns where you can effectively use blocks and re-implement common standard library methods using them. Trace through how Symbol#to\_proc works and find out the different ways of calling procs. This succinct guide takes you through the different kinds of Ruby closures with engaging examples, and each chapter comes with exercises that test and challenge your understanding. When you finish this book, blocks, procs, and lambdas will have become an integral part of your Ruby toolbox. What You Need: Ruby 2.x and a basic familiarity with Ruby.

Learn to program with Rust in an easy, step-by-step manner on Unix, Linux shell, macOS and the Windows command line. As you read this book, you'll build on the knowledge you gained in previous chapters and see what Rust has to offer. Beginning Rust starts with the basics of Rust, including how to name objects, control execution flow, and handle primitive types. You'll see how to do arithmetic, allocate memory, use iterators, and handle input/output. Once you have mastered these core skills, you'll work on handling errors and using the object-oriented features of Rust to build robust

Rust applications in no time. Only a basic knowledge of programming is required, preferably in C or C++. To understand this book, it's enough to know what integers and floating-point numbers are, and to distinguish identifiers from string literals. After reading this book, you'll be ready to build Rust applications. What You'll Learn Get started programming with Rust Understand heterogeneous data structures and data sequences Define functions, generic functions, structs, and more Work with closures, changeable strings, ranges and slices Use traits and learn about lifetimes Who This Book Is For Those who are new to Rust and who have at least some prior experience with programming in general: some C/C++ is recommended particularly.

A comprehensive guide to building Ruby on Rails apps that can be sustained for many years.

Getting paid using Stripe or PayPal is only the beginning of creating a fully-functional e-commerce application. You also need to handle failure cases, inventory management, administration, security, reporting, and be compliant with legal issues. Manage one-time transactions and recurring subscriptions, handle inventory management, issue discounts and refunds, mitigate administration and compliance issues, and test your code to ensure your customers have a smooth, hassle-free experience. An e-commerce payment application is literally rewarding to build--you can see the return on investment as genuine money is added to your account. But it can be stressful to manage, with security and compliance concerns and administration issues. And your entire business may depend on these features working smoothly. Let Noel Rappin guide you through the setup and complications of dealing with online financial transactions. Go beyond just the interaction with the gateway service and build an application that will be robust and useful over time. Set up a Stripe and PayPal payment gateway and accept credit card payments. Use the Stripe API to improve security by validating credit card data without sending it through your own server. Design your application for maximum flexibility against the inevitable complexities of business logic, including handling discounts. Manage the multiple failure points of dealing with payment gateways and test for failure cases. Use background jobs to simplify third-party interactions. Handle administrative tasks such as issuing refunds and discounts while maintaining data integrity and security. Create subscription plans and manage recurring payments, and stay on top of legal issues regarding taxes, reporting, and compliance. Pay affiliates or contributors from your application. By the end, you will know how to create a fully-functional web payment-taking machine. What You Need: The code in this book works with Ruby 2.3.1 and Rails 5, though nearly all of the code will run with earlier versions of Ruby and Rails.

This comprehensive career guide helps readers take a close look at coding as a career path and gives them a long, actionable list for turning their interests into a career across a variety of fields. Whether a student is interested in games, engineering, design, or systems administration, each career path comes with a detailed list of resources and first-person accounts from professionals in the field. This guide is all a coding enthusiast needs to get started planning and building a career, all without having to worry about student loans.

What others in the trenches say about *The Pragmatic Programmer*... "The cool thing about this book is that it's great for keeping the programming process fresh. The book helps you to continue to grow and clearly comes from people who have been there." —Kent Beck, author of *Extreme Programming Explained: Embrace Change* "I found this book to be a great mix of solid advice and wonderful analogies!" —Martin Fowler, author of *Refactoring* and *UML Distilled* "I would buy a copy, read it twice, then tell all my colleagues to run out and grab a copy. This is a book I would never loan because I would worry about it being lost." —Kevin Ruland, Management Science, MSG-Logistics "The wisdom and practical experience of the authors is obvious. The topics presented are relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and expert mentors alike." —John Lakos, author of *Large-Scale C++ Software Design* "This is the sort of book I will buy a dozen copies of when it comes out so I can give it to my clients." —Eric Vought, Software Engineer "Most modern books on software development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality the greatest leverage possible for any software team is in having talented developers who really know their craft well. An excellent book." —Pete McBreen, Independent Consultant "Since reading this book, I have implemented many of the practical suggestions and tips it contains. Across the board, they have saved my company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living." —Jared Richardson, Senior Software Developer, iRenaissance, Inc. "I would like to see this issued to every new employee at my company...." —Chris Cleeland, Senior Software Engineer, Object Computing, Inc. "If I'm putting together a project, it's the authors of this book that I want. . . . And failing that I'd settle for people who've read their book." —Ward Cunningham Straight from the programming trenches, *The Pragmatic Programmer* cuts through the increasing specialization and technicalities of modern software development to examine the core process--taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this book, and you'll learn how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts, assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively; Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and filled with entertaining anecdotes, thoughtful examples, and interesting analogies, *The Pragmatic Programmer* illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes



that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer.

This short early adopter book details both how you'll upgrade existing web applications from Rails 4.2 to 5 and how to create new applications in Rails 5. The headline features, Rails API and Action Cable are each looked at in detail, building small example projects to demonstrate how to build a JSON API and add real-time interactions in order to create a single-page application. All the breaking changes are shown, along with how to fix your app to work with the new release. The improvements to ActiveRecord and the testing framework are fully detailed. After reading and using Rails 5 Revealed, you'll be poised to move forward with building your apps with the latest major release of Ruby on Rails. What You'll Learn Discover the new features in Rails 5 and how to upgrade your application from Rails 4.2 Gain knowledge about the changes to ActiveRecord See the improvements to the Rails testing framework Build API servers using Rails API Create WebSocket applications using Action Cable Who This Book Is For Existing Rails developers who are looking to quickly get up to speed with the changes in the new Rails 5 framework.

Discover the world of Full Stack Development with real-world examples. Key Features Leverage the full power of the JHipster platform to build complex web applications Create microservices from scratch and convert JHipster monolith apps into microservices Build and deploy applications locally, in Docker and on various cloud platforms. Book Description JHipster is a development platform to generate, develop, and deploy Spring Boot and Angular/React applications and Spring microservices. It provides you with a variety of tools that will help you quickly build modern web applications. This book will be your guide to building full stack applications with Spring and Angular using the JHipster tool set. You will begin by understanding what JHipster is and the various tools and technologies associated with it. You will learn the essentials of a full stack developer before getting hands-on and building a monolithic web application with JHipster. From here you will learn the JHipster Domain Language with entity modeling and entity creation using JDL and JDL studio. Moving on, you will be introduced to client side technologies such as Angular and Bootstrap and will delve into technologies such as Spring Security, Spring MVC, and Spring Data. You will learn to build and package apps for production with various deployment options such as Heroku and more. During the course of the book, you will be introduced to microservice server-side technologies and how to break your monolithic application with a database of your choice. Next, the book takes you through cloud deployment with microservices on Docker and Kubernetes. Going forward, you will learn to build your client side with React and master JHipster best practices. By the end of the book, you will be able to leverage the power of the best tools available to build modern web applications. What you will learn Build business logic by creating and developing entity models us the JHipster Domain Language Customize web applications with Angular, Bootstrap and Spring Tests and Continuous Integration with Jenkins Utilize the JHipster microservice stack, which includes Netflix Eureka, Spring Cloud config, HashiCorp Consul, and so on. Understand advanced microservice concepts such as API rout, load balancing, rate limit, circuit break, centralized configuration server, JWT authentication, and more Run microservices locally using Docker and Kubernetes (in production) Who this book is for This book will appeal to developers who would like to build modern web applications quickly. A basic knowledge of the Spring ecosystem would be an added advantage.

Build modern, fast, and progressive web applications using modern features of PHP 7 and TypeScript Key Features Explore the latest features of Angular and Laravel to build applications that are powerful, consistent, and maintainable Develop modern user interfaces with a reusable component-based architecture using Angular 6 and Bootstrap 4 Learn how to build secure backend APIs with Laravel Book Description Angular, considered as one of the most popular and powerful frontend frameworks, has undergone a major overhaul to embrace emerging web technologies so that developers can build cutting-edge web applications. This book gives you practical knowledge of building modern full-stack web apps from scratch using Angular with a Laravel Restful back end. The book begins with a thorough introduction to Laravel and Angular and its core concepts like custom errors messages, components, routers, and Angular-cli, with each concept being explained first, and then put into practice in the case-study project. With the basics covered, you will learn how sophisticated UI features can be added using NgBootstrao and a component-based architecture. You will learn to extend and customize variables from Bootstrap CSS framework. You will learn how to create secure web application with Angular and Laravel using token based authentication. Finally, you will learn all about progressive web applications and build and deploy a complete fullstack application using Docker and Docker-compose. By the end of this book, you'll gain a solid understanding of Angular 6 and how it interacts with a Laravel 5.x backend What you will learn Explore the core features of Angular 6 to create sophisticated user interfaces Use Laravel 5 to its full extent to create a versatile backend layer based on RESTful APIs Configure a web application in order to accept user-defined data and persist it into the database using server-side APIs Build an off-line-first application using service-worker and manifest file Deal with token based authentication on single page application (SPA). Secure your application against threats and vulnerabilities in a time efficient way Deploy using Docker and Docker-compose Who this book is for This book targets developers who are new to Angular, Laravel, or both, and are seeking a practical, best-practice approach to development with these technologies. They must have some knowledge of HTML, CSS and JavaScript. Familiarity of PHP is assumed to get the most from this book.

The idea of heroism in women is not easily defined. In men the notion is often associated with physical strength and extravagant bravery. Women's heroism has tended to be of a very different nature, less easily categorized. All the women portrayed-Draupadi, Radha, Ambapali, Raziya Sultan, Meerabai, Jahanara, Laxmibai and Hazrat Mahal-share an unassailable belief in a cause, for which they are willing to fightto the death if need be. In every case this belief leads them to confrontation with a horrified patriarchy. In the book we meet lotus-eyed, dark-skinned Draupadi, dharma queen, whose story emerges almost three millennia ago; the goddess Radha who sacrificed societal respectability for a love that transgressed convention; Ambapali, a courtesan, who stepped out of the luxurious trappings of Vaishali to follow the

Buddha and wrote a single, haunting poem on the evanescence of beauty and youth. Raziya, the battle-scarred warrior, who proudly claimed the title of Sultan, refusing its fragile feminine counterpart, Sultana; the courageous Meerabai who repudiated her patriarchal destiny as cloistered daughter-in-law of a Rajput clan; the gentle Mughal princess Jahanara: who claims the blessings of both Allah and the Prophet Muhammad and wishes 'never to be forgotten'; Laxmibai, widow, patriot and martyr, who rides into legend and immortality fighting for her adopted son's birthright; and Hazrat Mahal, courtesan, begum and rebel queen, resolute till the very end in defying British attempts to seize her ex-husband's kingdom. In these engrossing portraits, mythological characters from thousands of years ago walk companionably besides historical figures from more recent times. They rise to reclaim their rightful place in history. Daughters, wives, courtesans, mothers, queens, goddesses, warriors-heroines.

Rails 5 and Ruby 2.2 bring many improvements, including new APIs and substantial performance enhancements, and the fifth edition of this award-winning classic is now updated! If you're new to Rails, you'll get step-by-step guidance. If you're an experienced developer, this book will give you the comprehensive, insider information you need for the latest version of Ruby on Rails. Ruby on Rails helps you produce high-quality, beautiful-looking web applications quickly. You concentrate on creating the application, and Rails takes care of the details. Learn Rails the way the Rails core team recommends it, along with the tens of thousands of developers who have used this broad, far-reaching tutorial and reference. We start with a step-by-step walkthrough of building a real application, and in-depth chapters look at the built-in Rails features. Follow along with an extended tutorial as you write a web-based store application. Eliminate tedious configuration and housekeeping; internationalize your applications; incorporate Ajax, REST, web services, and e-mail handling into your applications; test your applications as you write them using the built-in testing frameworks; and deploy your applications easily and securely. New in this edition is coverage of Action Cable, and completely updated code for Rails 5. Rails 1.0 was released in December 2005, more than 10 years ago. This book was there from the start, and didn't just evolve alongside Rails, it evolved with Rails. It has been developed in consultation with the Rails core team. In fact, Rails itself is tested against the code in this book. What You Need: All you need is a Windows, Mac OS X, or Linux machine to do development on. This book will take you through the steps to install Rails and its dependencies. If you aren't familiar with the Ruby programming language, this book contains a chapter that covers the basics necessary to understand the material in the book.

Most applications these days are at least somewhat network aware, but how do you protect those applications against common network security threats? Many developers are turning to OpenSSL, an open source version of SSL/TLS, which is the most widely used protocol for secure network communications. The OpenSSL library is seeing widespread adoption for web sites that require cryptographic functions to protect a broad range of sensitive information, such as credit card numbers and other financial transactions. The library is the only free, full-featured SSL implementation for C and C++, and it can be used programmatically or from the command line to secure most TCP-based network protocols. Network Security with OpenSSL enables developers to use this protocol much more effectively. Traditionally, getting something simple done in OpenSSL could easily take weeks. This concise book gives you the guidance you need to avoid pitfalls, while allowing you to take advantage of the library's advanced features. And, instead of bogging you down in the technical details of how SSL works under the hood, this book provides only the information that is necessary to use OpenSSL safely and effectively. In step-by-step fashion, the book details the challenges in securing network communications, and shows you how to use OpenSSL tools to best meet those challenges. As a system or network administrator, you will benefit from the thorough treatment of the OpenSSL command-line interface, as well as from step-by-step directions for obtaining certificates and setting up your own certification authority. As a developer, you will further benefit from the in-depth discussions and examples of how to use OpenSSL in your own programs. Although OpenSSL is written in C, information on how to use OpenSSL with Perl, Python and PHP is also included. OpenSSL may well answer your need to protect sensitive data. If that's the case, Network Security with OpenSSL is the only guide available on the subject.

The things you need to do to set up a new software project can be daunting. First, you have to select the back-end framework to create your API, choose your database, set up security, and choose your build tool. Then you have to choose the tools to create your front end: select a UI framework, configure a build tool, set up Sass processing, configure your browser to auto-refresh when you make changes, and configure the client and server so they work in unison. If you're building a new application using Spring Boot and Angular, you can save days by using JHipster. JHipster generates a complete and modern web app, unifying: - A high-performance and robust Java stack on the server side with Spring Boot - A sleek, modern, mobile-first front-end with Angular and Bootstrap - A robust microservice architecture with the JHipster Registry, Netflix OSS, the ELK stack, and Docker - A powerful workflow to build your application with Yeoman, Webpack, and Maven/Gradle

By covering the impressive capabilities of ASP.NET Core 5 and Angular 11, right from project setup through to the deployment phase, this fully revised and updated edition will help you develop your skills effectively.

Learn to build single page web apps using Angular 5 and TypeScript by working through 70+ mini-projects. With hundreds of code examples you gain a thorough understanding of the Angular 5 ecosystem and how to work within it. You'll begin by understanding the benefits of Angular 5 vs older versions, and how this benefits your applications. You'll then move onto mini-projects that teach you JavaScript, TypeScript, how to use editors, Node, CLI, components, modules, directives, Webpack, dependency injection, widgets, routes and navigation, observers, reactive programming, and RxJS. Complete with a consistently-updated online code repository, this book is a great way to get started with Angular 5. What You'll Learn Develop single page web applications using Angular 5 Understand the web development ecosystem Use Node, JavaScript and TypeScript Who This Book Is For New or experienced developers who wish to



develop single page web applications in Angular and the TypeScript language.

Improve the user experience for your Rails app with rich, engaging client-side interactions. Learn to use the Rails 6 tools and simplify the complex JavaScript ecosystem. It's easier than ever to build user interactions with the Webpacker gem and Stimulus. You can add great front-end flair without much extra complication. Add React to build an even more extensive set of client-side features. Structure your code for different levels of client-side needs with these powerful options. Add to your toolkit today! It's hard to have a Rails application without integrating some client-side logic. But client-side coding tools, and the Rails tools for integrating with them, all change continuously. Rails 6 simplifies client-side integration with the Webpacker gem. It's the default tool for building client-side assets for use by web browsers. Learn how to use Rails 6 and Webpacker to build rich front-end logic into your Rails applications. The job is even easier with Stimulus, a library that brings Rails conventions to JavaScript tools. Add in some React, a popular framework that automatically updates the browser when your data changes. Learn the basics of webpack, Webpacker, and TypeScript, and add pizzazz to your application. Structure your web application to best manage your state. Learn how to interact with data on the server while still keeping the user experience interactive. Use the type system in TypeScript to expand on JavaScript and help prevent error conditions. Debug and test your front-end application with tools specific to each framework. There are a lot of ways to do client-side coding, and Rails is here to help. **What You Need:** This book requires Ruby on Rails 6.0+, React 16.8.0+. Other dependencies will be added by Rails.

Reactive programming is revolutionary. It makes asynchronous programming clean, intuitive, and robust. Use RxJS 5 to write complex programs in a simple way, and master the Observable: a powerful data type that substitutes callbacks and promises. Think about your programs as streams of data that change and adapt to produce what you want. Manage real-world concurrency and write complex flows of events in your applications with ease. Take advantage of Schedulers to make asynchronous testing easier. The code in this new edition is completely updated for RxJS 5 and ES6. Create concurrent applications with ease using RxJS 5, a powerful event composition library. Real-world JavaScript applications require you to master asynchronous programming, and chances are that you'll spend more time coordinating asynchronous events than writing actual functionality. This book introduces concepts and tools that will greatly simplify the process of writing asynchronous programs. Find out about Observables, a unifying data type that simplifies concurrent code and eases the pain of callbacks. Learn how Schedulers change the concept of time itself, making asynchronous testing sane again. Find real-world examples for the browser and Node.js along the way: how about a real-time earthquake visualization in 20 lines of code, or a frantic shoot-'em-up space videogame? You'll also use Cycle.js - a modern, reactive, web framework - to make a new breed of web applications. By the end of the book, you'll know how to think in a reactive way, and to use RxJS 5 to build complex programs and create amazing reactive user interfaces. You'll also understand how to integrate it with your existing projects and use it with the frameworks you already know. All the code in this new edition has been thoroughly revised and updated for RxJS 5, ES6, and Cycle.js Unified. **What You Need:** NodeJS 6.x and a modern web browser

Get ready to see Rails as you've never seen it before. Learn how to extend the framework, change its behavior, and replace whole components to bend it to your will. Eight different test-driven tutorials will help you understand Rails' inner workings and prepare you to tackle complicated projects with solutions that are well-tested, modular, and easy to maintain. This second edition of the bestselling Crafting Rails Applications has been updated to Rails 4 and discusses new topics such as streaming, mountable engines, and thread safety. Rails is one of the most extensible frameworks out there. This pioneering book deep-dives into the Rails plugin APIs and shows you, the intermediate Rails developer, how to use them to write better web applications and make your day-to-day work with Rails more productive. Rails Core developer Jose Valim guides you through eight different tutorials, each using test-driven development to build a new Rails plugin or application that solves common problems with these APIs. You'll learn how the Rails rendering stack works and customize it to read templates from the database while you discover how to mimic Active Record behavior, such as validations, in any other object. You'll find out how Rails integrates with Rack, the different ways to stream data from your web application, and how to mix Rails engines and Sinatra applications into your Rails apps, so you can choose the most appropriate tool for the job. In addition, you'll improve your productivity by customizing generators and responders. This book will help you understand Rails' inner workings, including generators, template handlers, internationalization, routing, and responders. With the knowledge you'll gain, you'll create well-tested, modular, and robust solutions for your next project.

Provides a daily action plan filled with tips, tricks, and best practices to improve health for computer programmers, including how to mitigate back problems, carpal tunnel syndrome, and headaches.

Speak directly to your system. With its simple commands, flags, and parameters, a well-formed command-line application is the quickest way to automate a backup, a build, or a deployment and simplify your life. With this book, you'll learn specific ways to write command-line applications that are easy to use, deploy, and maintain, using a set of clear best practices and the Ruby programming language. This book is designed to make any programmer or system administrator more productive in their job. Now updated for Ruby 2. Writing a command-line application that's self-documenting, robust, adaptable and forever useful is easier than you might think. Ruby is particularly suited to this task, because it combines high-level abstractions with "close to the metal" system interaction wrapped up in a concise, readable syntax. Plus, Ruby has the support of a rich ecosystem of open source tools and libraries. Ten insightful chapters each explain and demonstrate a command-line best practice. You'll see how to use these tools to elevate the lowliest automation script to a maintainable, polished application. You'll learn how to use free, open source parsers to create user-friendly command-line interfaces as well as command suites. You'll see how to use defaults to keep options simple for everyday users, while giving advanced users options for more complex tasks. There's no reason why a command-line application should lack documentation, whether it's part of a help command or a man page; you'll find out when and how to use both. Your journey from command-line novice to pro ends with a look at valuable approaches to testing your apps, and includes some fun techniques for outside-the-box, colorful interfaces that will delight your users. With Ruby, the command line is not dead. Long live the command line.

Build modern SPAs by learning the latest and powerful features of Angular 5 and TypeScript 2.x **About This Book** The best overview of Angular 5 on the market, this guide gathers together everything there is to know about Angular 5 and groups it into intuitive sections. Learn to build, grow and test powerful and scalable mobile and desktop web applications with Angular Explore the latest features of Angular 5 and TypeScript 2.4 by building a complete responsive application from scratch. Deliver seamless web navigation experiences with application routing and state handling common features with ease The author has done all the hard work of fitting everything Angular 5 means for

developers, making this book the quickest way to learn Angular 5 from scratch. Who This Book Is For This book is for web developers who want to build the next generation of state-of-the-art mobile and desktop web applications with Angular. This book does not require you to have prior exposure to either Angular 1.x, 2 or 4, although comprehensive knowledge of JavaScript is assumed. What You Will Learn Set up the workspace and the project using webpack and Angular-Cli Explore the features of TypeScript and organize the code in ES6 modules Work with HTTP and Data Services and understand how data can flow in the app Create multiple views and learn how to navigate between them Make the app beautiful by adding Material Design Implement two different types of form handling and its validation Add animation to some standard events such as route change, initialization, data load, and so on Discover how to bulletproof your applications by introducing smart unit testing techniques and debugging tools In Detail The latest version of Angular comes with a lot of new features that help you to make your applications smaller and faster. This book will show you how to set up an Angular project, and you'll build Angular components right from the beginning. Moving on, you'll explore and work with the components to build your app. Next, you'll find out more about TypeScript and see how to use it to build apps in the best way possible. You'll then be introduced to the building blocks - Properties, Events, Directives, and Pipes - and how it can be used to implement and enhance the components. Additionally, you'll be using Angular components to organize your components in a scalable way. Then you'll understand how to get data in your app and add navigation to it. Furthermore, you'll deep dive and w...

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