

Learning React Functional Web Development With React And Redux Pdf Pdf

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Learning React Native Bonnie Eisenman 2015-12-03 Get a practical introduction to React Native, the JavaScript framework for writing and deploying fully featured mobile apps that look and feel native. With this hands-on guide, you'll learn how to build applications that target iOS, Android, and other mobile platforms instead of browsers. You'll also discover how to access platform features such as the camera, user location, and local storage. With code examples and step-by-step instructions, author Bonnie Eisenman shows web developers and frontend engineers how to build and style interfaces, use mobile components, and debug and deploy apps. Along the way, you'll build several increasingly sophisticated sample apps with React Native before putting everything together at the end. Learn how React Native provides an interface to native UI components Examine how the framework uses native components analogous to HTML elements Create and style your own React Native components and applications Install modules for APIs and features not supported by the framework Get tools for debugging your code, and for handling issues outside of JavaScript Put it all together with the Zebreto effective-memorization flashcard app Deploy apps to the iOS App Store and Google's Play Store

Learning GraphQL Eve Porcello 2018-08-09 Why is GraphQL the most innovative technology for fetching data since Ajax? By providing a query language for your APIs and a runtime for fulfilling queries with your data, GraphQL presents a clear alternative to REST and ad hoc web service architectures. With this practical guide, Alex Banks and Eve Porcello deliver a clear learning path for frontend web developers, backend engineers, and project and product managers looking to get started with GraphQL. You'll explore graph theory, the graph data structure, and GraphQL types before learning hands-on how to build a schema for a photo-sharing application. This book also introduces you to Apollo Client, a popular framework you can use to connect GraphQL to your user interface. Explore graph theory and review popular graph examples in use today Learn how GraphQL applies database querying methods to the internet Create a schema for a PhotoShare application that serves as a roadmap and a contract between the frontend and backend teams Use JavaScript to build a fully functioning GraphQL service and Apollo to implement a client Learn how to prepare GraphQL APIs and clients for production

JavaScript for Modern Web Development Alok Ranjan 2020-04-18 Beginner to Expert in Web development with JavaScript: From HTML to React-Redux KEY FEATURES - Acquire web development skills to build independent applications - Understand the basics of HTML, CSS, JavaScript, React and Redux - Create build beautiful applications using HTML, CSS, JavaScript, React and Redux - Learn how to debug and unit test your applications properly to build good end products - Follow best practices to write good quality code and build performant applications DESCRIPTION This book will take you on a complete journey of learning web development, starting right with the basics. The book begins with the history of web development and JavaScript, how it has evolved over these years, and how it still keeps growing with new features. Next, you will learn the basic pillars of web development - HTML, CSS, and JavaScript. You will learn about the functional, object-oriented programming and asynchronous behaviour, and how JavaScript provides for these. Empowered with the basics, you will proceed to learn the new features of JavaScript, ES2015, and the latest ES2019. Next, you will apply your learning to build a real application to see how the Web takes shape. At the end, you will also have an introductory section on ReactJS, one of the modern frameworks for UI development and also develop a simple weather application using React. You will be introduced to Redux as the state container for React applications. This book will conclude with an introductory look at additional topics which can be taken up to become a professional and in building enterprise level applications. WHAT WILL YOU LEARN By the end of the book, you will be building real web applications to put your knowledge to practice. This book introduces all the concepts to get started with web application development. To further excel in this field, you really need to practice by building a lot many applications, implementing your own ideas or imitating existing websites. Also remember to practice additional

examples provided in the code bundle of the book to master this field. WHO THIS BOOK IS FOR This book can be used by people who are completely new to software development and want to get into front-end web development by starting from basics. This book can also be used by JavaScript users for a quick reference to the fundamentals of HTML, CSS, JS, and learn ReactJS with Redux, as well as the new features in JavaScript ES2019. Table of Contents 1. History of JS and how it has revolutionized web development 2. HTML: Creating Web Content 3. CSS: Making content beautiful 4. JavaScript Programming: Making application Interactive 5. Functional programming with JavaScript 6. Object-Oriented JavaScript 7. Asynchronous Programming 8. What's new in ES2019 JavaScript 9. Building an application with JavaScript 10. Debugging JavaScript Applications 11. Unit test automation 12. Build and Deploy an Application 13. JavaScript Best Practices 14. Introduction to React 15. Building an application with React 16. State Management in React applications 17. Debugging, Testing, and Deploying React applications 18. What is next - for becoming a pro?

React and React Native Adam Boduch 2020-04-30 Get up to speed with React, React Native, GraphQL and Apollo for building cross-platform native apps with the help of practical examples Key FeaturesCovers the latest features of React such as Hooks, Suspense, NativeBase, and Apollo in this updated third editionGet to grips with the React architecture for writing easy-to-manage web and mobile applicationsUnderstand GraphQL and Apollo for building a scalable backend for your cross-platform appsBook Description React and React Native, Facebook's innovative User Interface (UI) libraries, are designed to help you build robust cross-platform web and mobile applications. This updated third edition is improved and updated to cover the latest version of React. The book particularly focuses on the latest developments in the React ecosystem, such as modern Hook implementations, code splitting using lazy components and Suspense, user interface framework components using Material-UI, and Apollo. In terms of React Native, the book has been updated to version 0.62 and demonstrates how to apply native UI components for your existing mobile apps using NativeBase. You will begin by learning about the essential building blocks of React components. Next, you'll progress to working with higher-level functionalities in application development, before putting this knowledge to use by developing user interface components for the web and for native platforms. In the concluding chapters, you'll learn how to bring your application together with a robust data architecture. By the end of this book, you'll be able to build React applications for the web and React Native applications for multiple mobile platforms. What you will learnDelve into the React architecture, component properties, state, and contextGet to grips with React Hooks for handling functions and componentsImplement code splitting in React using lazy components and SuspenseBuild robust user interfaces for mobile and desktop apps using Material-UIWrite shared components for Android and iOS mobile apps using React NativeSimplify layout design for React Native apps using NativeBaseWrite GraphQL schemas to power web and mobile appsImplement web and mobile components that are driven by ApolloWho this book is for This book is for any JavaScript developer who wants to start learning how to use Facebook's UI libraries, React and React Native, for mobile and web application development. Although no prior knowledge of React is needed, working knowledge of JavaScript programming will help you understand the concepts covered in the book more effectively. *ASP.NET Core 5 and React* Carl Rippon 2021-01-08 Build fully functional, cloud-ready, and professional web applications using the latest features in the .NET 5 framework and React.js with Microsoft Azure Key FeaturesExplore the new features of .NET 5 with this updated edition of ASP.NET Core 5 and ReactDiscover strategies for adopting a full-stack development approach, clean architecture techniques, and development best practicesLearn how to manage data, design and package applications, and secure your web appsBook Description Microsoft's .NET framework is a robust server-side framework, now even more powerful thanks to the recent unification of the Microsoft ecosystem with the .NET 5 framework. This updated second edition addresses these changes in the .NET framework and the latest release of React. The book starts by taking you

through React and TypeScript components for building an intuitive single-page application and then shows you how to design scalable REST APIs that can integrate with a React-based frontend. Next, you'll get to grips with the latest features, popular patterns, and tools available in the React ecosystem, including function-based components, React Router, and Redux. As you progress through the chapters, you'll learn how to use React with TypeScript to make the frontend robust and maintainable and cover key ASP.NET 5 features such as API controllers, attribute routing, and model binding to build a sturdy backend. In addition to this, you'll explore API security with ASP.NET 5 identity and authorization policies and write reliable unit tests using both .NET and React, before deploying your app on Azure. By the end of this book, you'll have gained the knowledge you need to enhance your C# and JavaScript skills and build full-stack, production-ready applications with ASP.NET 5 and React. What you will learn

Build RESTful APIs with .NET 5 using API controllers
Secure REST APIs with identity and authorization policies
Create strongly typed, interactive, and function-based React components using Hooks
Understand how to style React components using Emotion.js
Perform client-side state management with Redux
Run a range of automated tests on the frontend and backend
Implement continuous integration and continuous delivery (CI/CD) processes in Azure using Azure DevOps
Who this book is for If you're a web developer looking to get up to speed with full-stack web application development with .NET Core and React, this book is for you. Although the book does not assume any knowledge of React, a basic understanding of .NET Core will help you to get to grips with the concepts covered.

Learning React Alex Banks 2017-04-27 If you want to learn how to build efficient user interfaces with React, this is your book. Authors Alex Banks and Eve Porcello show you how to create UIs with this small JavaScript library that can deftly display data changes on large-scale, data-driven websites without page reloads. Along the way, you'll learn how to work with functional programming and the latest ECMAScript features. Developed by Facebook, and used by companies including Netflix, Walmart, and The New York Times for large parts of their web interfaces, React is quickly growing in use. By learning how to build React components with this hands-on guide, you'll fully understand how useful React can be in your organization. Learn key functional programming concepts with JavaScript Peek under the hood to understand how React runs in the browser Create application presentation layers by mounting and composing React components Use component trees to manage data and reduce the time you spend debugging applications Explore React's component lifecycle and use it to load data and improve UI performance Use a routing solution for browser history, bookmarks, and other features of single-page applications Learn how to structure React applications with servers in mind

React.js Book Greg Sidelnikov 2017-03-17 My fourth web development book is simply called React.js Book. It will walk you step by step through the process of setting up a development environment and learning Reactive programming from start to finish. React is a library unlike any other I have worked with. Unlike jQuery where you had to learn a number of methods that do very specific things, it's largely inspired by a programming methodology for creating fast web applications. In addition you will be expected to know or at least be briefly familiar with prerequisite knowledge of other web development tools such as Node.js, NPM, Babel, JSX and WebPack. These are not required elements of programming with React, but without them things would be tough. As of 2017, Reactive programming is an alternative way of thinking about web applications. It provides software patterns that make your web app extremely responsive to user input and generally feel faster to the end-user (people who are using your application.) The Virtual DOM alone is enough of a reason to switch to React. Programming with React library, is a lot more than just learning about and using React objects, components, states, props and methods. It requires previous experience with JavaScript and at times assumes knowledge of software principles not inherent to React library itself. This book is not a list of object names, methods and functions with side explanations of what they do. Rather, it deals with the said principles involved in React programming thought up by the creators of React library. Principles that are usually understood by professional web developers and software engineers. For all these reasons stated above, this book will gradually walk you through the process of becoming familiar with React library, starting from basic concepts. Gradually, we will move toward more advanced subjects. So, prepare to be educated

Learning React.js Claudia Alves 2020-08-21 You may have picked up this book with some level of JavaScript knowledge. There is also a high probability that you have an idea of what React.js is. This chapter highlights the key aspects of React as a framework, explains the problems it solves, and describes how you can utilize the features and the rest of the information contained in this book to better your web development practices and create complex, yet maintainable user interfaces using React. Defining React.js React.js is a JavaScript framework. React was originally created by engineers at Facebook to solve the challenges involved when developing complex user interfaces with datasets that change over time. This is not a trivial undertaking and must not only be maintainable, but also scalable to work at the scale of Facebook. React.js was actually born in Facebook's ads organization, where they had been utilizing a traditional client-side Model-View-Controller approach. Applications such as these normally consist of two-way data binding along with rendering template. React changed the way that these applications were created by making some daring advances in web development. When React.js was released in 2013, the web development community was both interested and seemingly disgusted by what React was doing. As you will discover throughout this book, React challenges conventions that have become the de-facto standards for JavaScript framework best practices. React does this by introducing many new paradigms and shifting the status quo of what it takes to create scalable and maintainable JavaScript applications and user interfaces. Along with the shift in front-end development mentality, React comes with a rich set of features that make composing a single-page application or user interface approachable for developers of many skill levels—from those who have just been introduced to JavaScript, to seasoned veterans of the web. You will see these features—such as the virtual DOM, JSX, and Flux concepts—as you read this book and discover how they can be used to create complex user interfaces. You will also see, in brief, how Facebook is continually challenging the development world with React Native. React Native is a new open source library for creating native user interfaces utilizing the same principles as React's JavaScript library. By creating a Native UI library, React has pushed its value proposition of "learn once, write anywhere." This paradigm shift applies to being able to utilize the core concepts of React in order to make maintainable interfaces. By now it is possible you are thinking that there is nothing React can't do when it comes to development. This is not the case, and in order to further understand what React is, you need an understanding of what React is not, which you learn later in this chapter. First, you will understand the underlying problems that caused React to be created and how React solves those problems.

Learning React Kirupa Chinnathambi 2018-04-26 Learning React A hands-on guide to building web applications using React and Redux As far as new web frameworks and libraries go, React is quite the runaway success. It not only deals with the most common problems developers face when building complex apps, it throws in a few additional tricks that make building the visuals for such apps much, much easier. What React isn't, though, is beginner-friendly and approachable. Until now. In Learning React, author Kirupa Chinnathambi brings his fresh, clear, and very personable writing style to help web developers new to React understand its fundamentals and how to use it to build really performant (and awesome) apps. The only book on the market that helps you get your first React app up and running in just minutes. Learning React is chock-full of colorful illustrations to help you visualize difficult concepts and practical step-by-step examples to show you how to apply what you learn. Build your first React app Create components to define parts of your UI Combine components into other components to build more complex UIs Use JSX to specify visuals without writing full-fledged JavaScript Deal with maintaining state Work with React's way of styling content Make sense of the mysterious component lifecycle Build multi-page apps using routing and views Optimize your React workflow using tools such as Node, Babel, webpack, and others Use Redux to make managing your app data and state easy

Contents at a Glance

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JavaScript for Modern Web Development Alok Sinha Ranjan, Abhilasha Battewad Ranjit 2020-04-28 Beginner to Expert in Web development with JavaScript: From HTML to React-Redux

KEY FEATURES

- a- Acquire web development skills to build independent applications
- a- Understand the basics of HTML, CSS, JavaScript, React and Redux
- a- Create build beautiful applications using HTML, CSS, JavaScript, React and Redux
- a- Learn how to debug and unit test your applications properly to build good end products
- a- Follow best practices to write good quality code and build performant applications

DESCRIPTION This book will take you on a complete journey of learning web development, starting right with the basics. The book begins with the history of web development and JavaScript, how it has evolved over these years, and how it still keeps growing with new features. Next, you will learn the basic pillars of web development - HTML, CSS, and JavaScript. You will learn about the functional, object-oriented programming and asynchronous behaviour, and how JavaScript provides for these. Empowered with the basics, you will proceed to learn the new features of JavaScript, ES2015, and the latest ES2019. Next, you will apply your learning to build a real application to see how the Web takes shape. At the end, you will also have an introductory section on ReactJS, one of the modern frameworks for UI development and also develop a simple weather application using React. You will be introduced to Redux as the state container for React applications. This book will conclude with an introductory look at additional topics which can be taken up to become a professional and in building enterprise level applications.

WHAT WILL YOU LEARN By the end of the book, you will be building real web applications to put your knowledge to practice. This book introduces all the concepts to get started with web application development. To further excel in this field, you really need to practice by building a lot many applications, implementing your own ideas or imitating existing websites. Also remember to practice additional examples provided in the code bundle of the book to master this field.

WHO THIS BOOK IS FOR This book can be used by people who are completely new to software development and want to get into front-end web development by starting from basics. This book can also be used by JavaScript users for a quick reference to the fundamentals of HTML, CSS, JS, and learn ReactJS with Redux, as well as the new features in JavaScript ES2019.

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About the Authors Alok Ranjan is a B.Tech in Computer Science and Engineering from IIT Delhi. After graduating in 2001, Alok worked with companies like Newgen, Virtusa, and Convergys before starting his entrepreneurial journey. Abhilasha Sinha is BE Computer Science from Osmania University. After completing her graduation in 2003, she started her career as a Software Engineer with Infosys. She went on to become Senior Technology Architect in a long and fulfilling association of 12 years. Ranjit Battewad has over 8 years of experience in full-stack web and mobile application development. Associated with WalkingTree Technologies since past over 8 years and playing the role of senior technical lead, he has exposure to complex application architecture design and development.

Learning React Native Bonnie Eisenman 2017-10-23 Get a practical introduction to React Native, the JavaScript framework for writing and deploying fully featured mobile apps that render natively. The second edition of this hands-on guide shows you how to build applications that target iOS, Android, and other mobile platforms instead of browsers—apps that can access platform features such as the camera, user location, and local storage. Through code examples and step-by-step instructions, web developers and frontend engineers familiar with React will learn how to build and style interfaces, use mobile components, and debug and deploy apps. You'll learn how to extend React Native using third-party libraries or your own Java and Objective-C libraries. Understand how React Native works under the hood with native UI components Examine how React Native's mobile-based components compare to basic HTML elements Create and style your own React Native components and applications Take advantage of platform-specific APIs, as well as modules from the framework's community Incorporate platform-specific components into cross-platform apps Learn common pitfalls of React Native development, and tools for dealing with them Combine a large application's many screens into a cohesive UX Handle state management in a large app with the Redux library

Progressive Web Apps with React Scott Domes 2017-10-24 Enhance the performance of your applications by using React and adding the Progressive web app capability to it About This Book Bring the best of mobile sites and native apps to your users with progressive web applications Create fast, reliable, and engaging PWAs with React and Firebase Create high-performance applications even with low connection speeds by leveraging modern web technologies Who This Book Is For This book is for Javascript Developers who want to develop high performance Web User Interfaces. This book requires basic knowledge of HTML, CSS and JavaScript. What You Will Learn Set up Webpack configuration, as well as get the development server running Learn basic Firebase configuration and deployment Create routes, manage multiple components, and learn how to use React Router v4 to manage the flow of data Use React life cycle methods to load data Add a service worker to the app and learn how it works Use a service worker to send Push Notifications Configure Webpack to split up the JavaScript bundle and lazy load component files Learn how to use the web Cache API to use your app offline Audit PWAs with Google's Lighthouse tool In Detail For years, the speed and power of web apps has lagged behind native applications. Progressive Web Apps (PWAs) aim to solve this by bridging the gap between the web apps and native apps, delivering a host of exciting features. Simultaneously, React is fast becoming the go-to solution for building modern web UIs, combining ease of development with performance and capability. Using React alongside PWA technology will make it easy for you to build a fast, beautiful, and functional web app. After an introduction and brief overview of the goals of PWAs, the book moves on to setting up the application structure. From there, it covers the Webpack build process and the process of creating React components. You'll learn how to set up the backend database and authentication solution to communicate with Firebase and how to work with React Router. Next, you will create and configure your web app manifest, making your PWA installable on mobile devices. Then you'll get introduced to service workers and see how they work as we configure the app to send push notifications using Firebase Cloud Messaging. We'll also explore the App Shell pattern, a key concept in PWAs and look at its advantages regarding efficient performance. Finally, you'll learn how to add offline capabilities to the app with caching and confirm your progress by auditing your PWA with Lighthouse. Also, you'll discover helper libraries and shortcuts that will help you save time and understand the future of PWA development. Style and approach This is a step-by-step book, wherein, you will use the React framework to create a complete progressive web app.

React Quickly Azat Mardan 2017-08-20 Summary React Quickly is for anyone who wants to learn React.js fast. This hands-on book teaches you the concepts you need with lots of examples, tutorials, and a large main project that gets built throughout the book. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Successful user interfaces need to be visually interesting, fast, and flowing. The React.js JavaScript library supercharges view-heavy web applications by improving data flow between UI components. React sites update visual elements efficiently and smoothly, minimizing page reloads. React is developer friendly, with a strong ecosystem to support the dev process along the full application stack. And because it's all JavaScript, React is instantly familiar. About the Book React Quickly is the tutorial for web developers who want to get started fast with React.js. Following carefully chosen and clearly explained examples, you'll learn React development using your existing JavaScript and web dev skills. You'll explore a host of different projects as you learn about web components, forms, and data. What's Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building web applications with JavaScript. About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and teaching JavaScript and Node, and author of several books on JavaScript, Node, React, and Express. Table of Contents PART 1 - REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components

Project: Menu component Project: Tooltip component Project: Timer component PART 2 - REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project: Building a bookstore with React Router Project: Checking passwords with Jest Project: Implementing autocomplete with Jest, Express, and MongoDB APPENDIXES Appendix A - Installing applications used in this book Appendix B - React cheatsheet Appendix C - Express.js cheatsheet Appendix D - MongoDB and Mongoose cheatsheet Appendix E - ES6 for success *Full-Stack React, TypeScript, and Node* David Choi 2020-12-18 Discover the current landscape of full-stack development and how to leverage modern web technologies for building production-ready React.js applications to deploy on AWS Key Features Understand the architecture of React and single-page applications Build a modern Web API for your SPA using Node.js, Express, and GraphQL Gain a clear and practical understanding of how to build a complete full-stack application Book Description React sets the standard for building high-performance client-side web apps. Node.js is a scalable application server that is used in thousands of websites, while GraphQL is becoming the standard way for large websites to provide data and services to their users. Together, these technologies, when reinforced with the capabilities of TypeScript, provide a cutting-edge stack for complete web application development. This book takes a hands-on approach to implementing modern web technologies and the associated methodologies for building full-stack apps. You'll begin by gaining a strong understanding of TypeScript and how to use it to build high-quality web apps. The chapters that follow delve into client-side development with React using the new Hooks API and Redux. Next, you'll get to grips with server-side development with Express, including authentication with Redis-based sessions and accessing databases with TypeORM. The book will then show you how to use Apollo GraphQL to build web services for your full-stack app. Later, you'll learn how to build GraphQL schemas and integrate them with React using Hooks. Finally, you'll focus on how to deploy your application onto an NGINX server using the AWS cloud. By the end of this book, you'll be able to build and deploy complete high-performance web applications using React, Node, and GraphQL. What you will learn Discover TypeScript's most important features and how they can be used to improve code quality and maintainability Understand what React Hooks are and how to build React apps using them Implement state management for your React app using Redux Set up an Express project with TypeScript and GraphQL from scratch Build a fully functional online forum app using React and GraphQL Add authentication to your web app using Redis Save and retrieve data from a PostgreSQL database using TypeORM Configure NGINX on the AWS cloud to deploy and serve your apps Who this book is for The book is for web developers who want to go beyond front-end web development and enter the world of full-stack web development by learning about modern web technologies and how they come together. A good understanding of JavaScript programming is required before getting started with this web development book.

Web Development with ReasonML J. David Eisenberg 2019-03-26 ReasonML is a new, type-safe, functional language that compiles to efficient, readable JavaScript. ReasonML interoperates with existing JavaScript libraries and works especially well with React, one of the most popular front-end frameworks. Learn how to take advantage of the power of a functional language while keeping the flexibility of the whole JavaScript ecosystem. Move beyond theory and get things done faster and more reliably with ReasonML today. ReasonML is a new syntax for OCaml, a battle-tested programming language used in industry for over 20 years. Designed to be familiar to JavaScript programmers, ReasonML code compiles to highly readable JavaScript. With ReasonML, you get OCaml's powerful functional programming features: a strong static type system with an excellent type inference engine, pattern matching, and features for functional programming with immutable variables. ReasonML also allows flexibility with opt-in side effects, mutation, and object-oriented programming. ReasonML hits the sweet spot between the pure theoretical world and the laissez-faire approach of JavaScript. Start using ReasonML's powerful type system as you learn the essentials of the language: variables and arithmetic operations. Gain expressive power as you write functions with named parameters and currying. Define your own data types, and integrate all these capabilities into a simple web page. Take advantage of ReasonML's functional data structures with map and reduce functions. Discover new ways to write algorithms with ReasonML's recursion support. Interoperate with existing JavaScript libraries with bindings, and write reactive web applications using ReasonML in tandem with React. Reinforce concepts with examples that range from short, tightly focused functions to complete programs, and practice your new skills with exercises in each chapter. With ReasonML, harness the awesome power of a functional language while retaining the best features of JavaScript to produce concise, fast, type-safe programs. What You Need: You'll need to have node.js (version 10.0 or above) and npm (version 5.6 or above). Once you install the bs-platform package and fire up a text editor, you're ready to go. (There are plugins for many popular editors that will make editing easier.)

Learn React with TypeScript 3 Carl Rippon 2018-11-29 Start developing modern day component based web apps using React 16, Redux and TypeScript 3 with this easy to follow guide filled with practical examples. Key Features Learn the latest and core features of React such as components, React Router, and suspense Dive into TypeScript 3 and its core components such as interfaces, types aliases, tuples, generics and much more. Build small-to-large scale single page applications with React, Redux, GraphQL and TypeScript Book Description React today is one of the most preferred choices for frontend development. Using React with TypeScript enhances development experience and offers a powerful combination to develop high performing web apps. In this book, you'll learn how to create well structured and reusable react components that are easy to read and maintain by leveraging modern web development techniques. We will start with learning core TypeScript programming concepts before moving on to building reusable React components. You'll learn how to ensure all your components are type-safe by leveraging TypeScript's capabilities, including the latest on Project references, Tuples in rest parameters, and much more. You'll then be introduced to core features of React such as React Router, managing state with Redux and applying logic in lifecycle methods. Further on, you'll discover the latest features of React such as hooks and suspense which will enable you to create powerful function-based components. You'll get to grips with GraphQL web API using Apollo client to make your app more interactive. Finally, you'll learn how to write robust unit tests for React components using Jest. By the end of the book, you'll be well versed with all you need to develop fully featured web apps with React and TypeScript. What you will learn Gain a first-hand experience of TypeScript and its productivity features Transpile your TypeScript code into JavaScript for it to run in a browser Learn relevant advanced types in TypeScript for creating strongly typed and reusable components. Create stateful function-based components that handle lifecycle events using hooks Get to know what GraphQL is and how to work with it by executing basic queries to get familiar with the syntax Become confident in getting good unit testing coverage on your components using Jest Who this book is for The ideal target audience for this book are web developers who want to get started with creating modern day web apps with React and TypeScript. You are expected to have a basic understanding of JavaScript and HTML programming. No prior knowledge of TypeScript and React is needed.

React: Building Modern Web Applications Jonathan Hayward 2016-06-10 Master the art of building dynamic, modern web applications with React About This Book Learn the hot new frontend web framework from Facebook - ReactJS, an easy way of developing the V in MVC and a better approach to software engineering in JavaScript A fast-paced guide to designing and building scalable and maintainable web apps with React.js Learn all the new ES6 features and be among the most prominent JavaScript developers who can write efficient JS programs as per the latest standards Master the art of building modern web applications using React Learn to build modern native iOS and Android applications using JavaScript and the incredible power of React Who This Book Is For This course is for web developers that want to unlock high performance dynamism in the applications that they create. If you want a comprehensive journey into one of the most important JavaScript frameworks around today, dive into this course. What You Will Learn Take control of the front end with reactive JavaScript programming Discover what ReactJS offers your development - before mastering it Create React elements with properties and children Use JSX to speed up your React development process Test your React components with the Jest test framework Learn the latest syntax of ES6 Execute ES6 in a non-supported ES6 environment Learn the principles of object-oriented programming Create a complete single-page application Use an application design plan to write smarter, more meaningful code Learn how to use animations to give extra style to your application Get to grips with the React Native environment Write your own *Learning React Functional Web Development With React And Redux Pdf Pdf upload Betty d Grant*

custom native UI components Integrate native modules in Objective-C and Java that interact with JavaScript In Detail ReactJS has helped to transform the web as we know it. Designed by Facebook to help developers build rapid, responsive UI that can deal with data-intensive usage, it's an essential component in any web developer's skillset. This ReactJS course, in five connected modules, provides you with a fast, engaging and practical route into ReactJS—so you can build powerful, elegant, and modern web applications. Beginning with the Reactive Programming with JavaScript module, you will learn how to take advantage of a reactive and functional programming paradigm to rethink how you approach your JavaScript code. It's built to help you understand the concepts, relevant and applicable for any frontend developer. You'll then dive a little deeper into ReactJS. The second module gives you a rapid look through the fundamentals of ReactJS, showing you how to build a basic application and demonstrating how to implement the Flux architecture. In the third module you will get to grips with ES6—this will make you a more fluent JavaScript developer, giving you control over ReactJS. You can put your old JavaScript hacks aside and instead explore how to create ES6 custom iterators. In the final two modules you'll learn how to fully master ReactJS, exploring its wider ecosystem of tools that have helped to make it one of the most important tools in web development today. Ending with insights and guidance on React Native, the tool built for today's demand for native, intuitive user experiences and interfaces, with this course you can be confident in building dynamic and modern apps with React. Style and approach Consisting of five separate modules, journey from the fundamentals of reactive programming to the exciting possibilities of React Native. Each module builds on each other, helping you to incrementally develop your skills and knowledge.

React and React Native Adam Boduch 2017-03-08 Use React and React Native to build applications for desktop browsers, mobile browsers, and even as native mobile apps About This Book Build React and React Native applications using familiar component concepts Dive deep into each platform, from routing in React to creating native mobile applications that can run offline Use Facebook's Relay, React and GraphQL technologies, to create a unified architecture that powers both web and native applications Who This Book Is For This book is written for any JavaScript developer—beginner or expert—who wants to start learning how to put both of Facebook's UI libraries to work. No knowledge of React is needed, though a working knowledge of ES2015 will help you follow along better. What You Will Learn Craft reusable React components Control navigation using the React Router to help keep your UI in sync with URLs Build isomorphic web applications using Node.js Use the Flexbox layout model to create responsive mobile designs Leverage the native APIs of Android and iOS to build engaging applications with React Native Respond to gestures in a way that's intuitive for the user Use Relay to build a unified data architecture for your React UIs In Detail React and React Native allow you to build cross-platform desktop and mobile applications using Facebook's innovative UI libraries. Combined with the Flux data architecture and Relay, you can now create powerful and feature-complete applications from just one code base! This book is split into three parts. The first part shows you how to start crafting composable UIs using React, from rendering with JSX and creating reusable components through to routing and creating isomorphic applications that run on Node. We then move on to showing you how to take the concepts of React and apply them to building Native UIs using React Native. You'll find out how to build responsive and streamlined UIs that can properly handle user interactions in a mobile environment. You'll also learn how to access device-specific APIs such as the geolocation API, and how to handle offline development with React Native. Finally, we'll tie all of these skills together and shows you how you can create React applications that run on every major platform. As well as understanding application state in depth, you'll learn how to leverage Relay to make feature-complete, data-driven web and native mobile applications. Style and approach Split into three major sections to help organize your learning, this hands-on, code-first book will help you get up to speed with React and React Native—the UI framework that powers Netflix, Yahoo, and Facebook.

Learning Web Development with React and Bootstrap Harmeet Singh 2016-12-30 Build real-time responsive web apps using React and Bootstrap About This Book* Showcase the power of React-Bootstrap through real-world examples* Explore the benefits of integrating React with various frameworks and APIs* See the benefits of using the latest frameworks to make your web development experience enchanting Who This Book Is For This book is for anybody who is interested in modern web development and has intermediate knowledge of HTML, CSS, and JavaScript. Basic knowledge of any JavaScript MVC framework would also be helpful. What You Will Learn* See how to integrate React-Bootstrap with React* Explore the Redux architecture and understand its benefits* Build a custom responsive theme* Easily interact with DOM on your web browser* Appreciate the advantages of using JSX* Get acquainted with the various routing methods in React* Integrate external APIs into React In Detail React-Bootstrap is one of the most popular front-end frameworks, and integrating it with React allows web developers to write much cleaner code. This book will help you gain a thorough understanding of the React-Bootstrap framework and show you how to build impressive web apps. In this book, you will get an overview of the features of React-Bootstrap and ReactJS, along with the integration of ReactJS components with ReactJS. You will understand the benefits of using JSX and the Redux architecture. The server-side rendering of React will also be shown. All the concepts are explained by developing real-world examples. By the end of this book, you will be equipped to create responsive web applications using React-Bootstrap with ReactJS, and will have an insight into the best practices.

Learning React Alex Banks (Software engineer) 2020 If you want to learn how to build efficient React applications, this is your book. Ideal for web developers and software engineers who understand how JavaScript, CSS, and HTML work in the browser, this updated edition provides best practices and patterns for writing modern React code. No prior knowledge of React or functional JavaScript is necessary. With their learning road map, authors Alex Banks and Eve Porcello show you how to create UIs that can deftly display changes without page reloads on large-scale, data-driven websites. You'll also discover how to work with functional programming and the latest ECMAScript features. Once you learn how to build React components with this hands-on guide, you'll understand just how useful React can be in your organization. Understand key functional programming concepts with JavaScript Look under the hood to learn how React runs in the browser Create application presentation layers with React components Manage data and reduce the time you spend debugging applications Incorporate React Hooks to manage state and fetch data Use a routing solution for single-page application features Learn how to structure React applications with servers in mind.

React.js Essentials Artemij Fedosejev 2015-08-27 A fast-paced guide to designing and building scalable and maintainable web apps with React.js About This Book Build maintainable and performant user interfaces for your web applications using React.js Create reusable React.js components to save time and effort in maintaining your user interfaces Learn how to build a ready-to-deploy React.js web application, following our step-by-step tutorial Who This Book Is For If you're a front-end developer with knowledge of jQuery and its libraries, along with frameworks, such as AngularJS and BackboneJS, or native JavaScript development, and you wish to use the fastest web user interface library there is, then this book is ideal for you. What You Will Learn Install powerful React.js tools to make development much more efficient Create React elements with properties and children Get started with stateless and stateful React components Use JSX to speed up your React.js development process Add reactivity to your React components with lifecycle methods Integrate your React components with other JavaScript libraries Utilize the Flux application architecture with your React components Test your React components with Jest test framework In Detail Building web applications with maintainable and performant user interfaces is a challenge that many have faced for more than a decade, but no one has risen to this challenge quite like React.js. Today React.js is used by Facebook, Instagram, Khan Academy, and Imperial College London, to name a few. Many new users recognize the benefits of React.js and adopt it in their own projects, forming a fast-growing community. The speed at which React.js has evolved promises a bright future for those who invest in learning it today. React.js Essentials will take you on a fast-paced journey through building your own maintainable React.js application. Begin by exploring how you can create single and multiple user interface elements. Create stateless and stateful components and make them reactive, learn to interact between your components and lifecycle methods and gauge how to effectively integrate your user interface components with other JavaScript libraries. Delve deep into the core elements of the Flux architecture and learn how to manage your application using stores. Finish by going that extra mile with the Jest test framework, running multiple tests on your application and find solutions to scale it further without

complexity. Style and approach The book adopts a step-by-step, hands-on approach with ample codes to ensure you learn React.js at a fast pace.

React: Up & Running Stoyan Stefanov 2016-07-14 Hit the ground running with React, the open-source technology from Facebook for building rich web applications fast. With this practical guide, Yahoo! web developer Stoyan Stefanov teaches you how to build components—React's basic building blocks—and organize them into maintainable, large-scale apps. If you're familiar with basic JavaScript syntax, you're ready to get started. Once you understand how React works, you'll build a complete custom Whinepad app that helps users rate wines and keep notes. You'll quickly learn why some developers consider React the key to the web app development puzzle. Set up React and write your first "Hello world" web app Create and use custom React components alongside generic DOM components Build a data table component that lets you edit, sort, search, and export its contents Use the JSX syntax extension as an alternative to function calls Set up a lean, low-level build process that helps you focus on React Build a complete custom app that lets you store data on the client Use ESLint, Flow, and Jest tools to check and test your code as your app evolves Manage communication between components with Flux

React in Action Mark Thomas 2018-05-28 Summary React in Action introduces front-end developers to the React framework and related tools. This clearly written, example-rich book begins by introducing you to React, diving into some of the fundamental ideas in React, and working with components. In the second section, you'll explore the different ways that data works in React as well as learning more about components. You'll also find several useful appendixes covering related topics like React tooling and the React ecosystem. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Facebook created React to help deliver amazing user experiences on a website with thousands of components and an incomprehensible amount of traffic. The same powerful tools are available to you too! The key is a clever design for managing state, data flow, and rendering, so your application is easy to think about and runs smoothly. Add an incredibly rich ecosystem of components and libraries, and you've got a recipe for building web apps that will delight both developers and users. About the Book React in Action teaches you to think like a pro about user interfaces and building them with React. This practical book gets you up and running quickly with hands-on examples in every chapter. You'll master core topics like rendering, lifecycle methods, JSX, data flow, forms, routing, integrating with third-party libraries, and testing. And the included application design ideas will help make your apps pop. As you learn to integrate React into full-stack applications, you'll explore state management with Redux and server-side rendering, and even dabble in React Native for mobile UIs. What's Inside React from the ground up Implementing a routing system with components Server-side rendering in Node.js Working with third-party libraries Testing React components About the Reader Written for developers familiar with HTML, CSS, and JavaScript. About the Author Mark Thomas is an experienced software engineer who works daily with React, JavaScript, and Node.js. He loves clean code, beautiful systems, and good coffee. Table of Contents PART 1 - MEET REACT Meet React Our first component PART 2 - COMPONENTS AND DATA IN REACT Data and data flow in React Rendering and lifecycle methods in React Working with forms in React Integrating third-party libraries with React Routing in React More routing and integrating Firebase Testing React components PART 3 - REACT APPLICATION ARCHITECTURE Redux application architecture More Redux and integrating Redux with React React on the server and integrating React Router An introduction to React Native *Programming TypeScript* Boris Cherny 2019-04-25 Any programmer working with a dynamically typed language will tell you how hard it is to scale to more lines of code and more engineers. That's why Facebook, Google, and Microsoft invented gradual static type layers for their dynamically typed JavaScript and Python code. This practical book shows you how one such type layer, TypeScript, is unique among them: it makes programming fun with its powerful static type system. If you're a programmer with intermediate JavaScript experience, author Boris Cherny will teach you how to master the TypeScript language. You'll understand how TypeScript can help you eliminate bugs in your code and enable you to scale your code across more engineers than you could before. In this book, you'll: Start with the basics: Learn about TypeScript's different types and type operators, including what they're for and how they're used Explore advanced topics: Understand TypeScript's sophisticated type system, including how to safely handle errors and build asynchronous programs Dive in hands-on: Use TypeScript with your favorite frontend and backend frameworks, migrate your existing JavaScript project to TypeScript, and run your TypeScript application in production

Advanced Web Development with React Mohan Mehtul 2020-02-26 Level up your React and Next.js skills with advanced concepts about SSR and PWA Key Featuresa- Covers latest and core React concepts including React hooks and React reconcilerb- Covers about Server Side Rendering with React and how to use it using Next.jsa- Covers about Progressive Web Apps in React and how to create themb- Covers intermediate and advanced React concepts like state managementa- Covers overview of React for beginners to catch with advanced concepts latera- Covers bleeding-edge React concepts on the future of React and how it would work eventuallyDescriptionThe book starts by introducing the reader to React, what it is and why you need a library like React to work with medium to large scale applications. We then move on to implementing simple client-side programs with React, uncovering modern React practices like React hooks and diving deep into various kinds of hooks. We then move to implement React on the server using Server-Side Rendering to bring benefits of the SEO world to the dynamic rendering nature of front-end libraries. For this, we use Next.js, a very popular implementation of Server-Side Rendering which comes with tons of good practices already baked in. We also take a look at how Progressive Web Apps can be created out of existing React codebases and what benefits it provides us. Finally, we end the book with some React internals (how to React works) and some bleeding-edge features in React which are expected to roll out in 2-3 years fully and would impact how to React works under the hood.What will you learna- What React is and how to get started with ita- Modern ways to code React applicationsa- Implementing Server-Side rendering with/without Next.js on the top of React librarya- Working with Progressive Web Apps in Reacta- How to React works under the hooda- Future of React and bleeding-edge React tech you can use todayWho this book is forThe reader is expected to have a decent understanding of JavaScript/HTML/CSS, and possibly, worked with React a little bit beforehand. Although the first 2 chapters cover basics of React, still it is recommended for users with at least a bit of knowledge and experience with React.Table of Contents1. React 1012. Setting up React3. Components4. State Management with React5. Server Side React6. Introduction to Next.js7. More with Next.js8. Progressive Web Apps9. Bleeding edge ReactAbout the AuthorMehul Mohan is an entrepreneur, developer and a security researcher. Currently, he is pursuing his bachelor's degree in CSE at BITS Pilani. He is a WWDC'19 Scholar, and runs codedamn - a platform for people to learn coding. You'll often find him creating programming tutorials on his YouTube channel, codedamn, having over 100,000 subscribers. He has been acknowledged by companies such as Google, Microsoft, Sony, etc. for his contributions as a security researcher. Your Blog links: <https://codedamn.com> <https://mehulmohan.com> His LinkedIn Profile: <https://linkedin.com/in/mehulmpt>

Functional Architecture with React and Redux Cristian Salcescu 2020-02 If you want to learn React and Redux by example this is a book you would like. We are going to build several applications with an incremental level of complexity by going through the same steps. The unidirectional flow implies getting the initial state, showing it to the user using the view functions, listening for actions, updating the state based on those actions, and rendering the updated state back to the user again. In all application we will identify these concepts: The state - the data that is stored and can change. The views - functions transform the data into HTML. React makes it easier to create view functions that take input data and - return the visual representation of it using an XML-like syntax called JSX. Actions - plain data objects used to express user interaction. The updaters - functions transform the state. They receive the current state and an action and return the new state. The Redux library provides a functional approach for managing state using pure update functions. From simple to complex, we are going to build: The Counter app A Sidebar The Color Search app The Loan Calculator app The Toast Notification module The Weather Forecast app The Hacker News Client A Show More component The NYT Client A Fetch module The book takes the approach of repetition as the key to learning.

Modern JavaScript Web Development Cookbook Federico Kereki 2018-12-26 Over 90 recipes to help you write clean code, solve common JavaScript problems, and work on popular use cases like SPAs, microservices, native mobile development with Node, React, React Native and Electron. Key *Learning React Functional Web Development With React And Redux Pdf Pdf upload Betty d Grant*

FeaturesOver 90 practical recipes to help you write clean and maintainable JavaScript codes with the latest ES8Leverage the power of leading web frameworks like Node and React to build modern web appsFeatures comprehensive coverage of tools and techniques needed to create multi-platform apps with JavaScriptBook Description JavaScript has evolved into a language that you can use on any platform. Modern JavaScript Web Development Cookbook is a perfect blend of solutions for traditional JavaScript development and modern areas that developers have lately been exploring with JavaScript. This comprehensive guide teaches you how to work with JavaScript on servers, browsers, mobile phones and desktops. You will start by exploring the new features of ES8. You will then move on to learning the use of ES8 on servers (with Node.js), with the objective of producing services and microservices and dealing with authentication and CORS. Once you get accustomed to ES8, you will learn to apply it to browsers using frameworks, such as React and Redux, which interact through Ajax with services. You will then understand the use of a modern framework to develop the UI. In addition to this, development for mobile devices with React Native will walk you through the benefits of creating native apps, both for Android and iOS. Finally, you'll be able to apply your new-found knowledge of server-side and client-side tools to develop applications with Electron. What you will learnUse the latest features of ES8 and learn new ways to code with JavaScriptDevelop server-side services and microservices with Node.jsLearn to do unit testing and to debug your codeBuild client-side web applications using React and ReduxCreate native mobile applications for Android and iOS with React NativeWrite desktop applications with ElectronWho this book is for This book is for developers who want to explore the latest JavaScript features, frameworks, and tools for building complete mobile, desktop and web apps, including server and client-side code. You are expected to have working knowledge of JavaScript to get the most out of this book.

React Quickly, Second Edition Morten Barklund 2023-09-05 Learn the skills you need to build React applications quickly! This fully revised second edition introduces functional components, React hooks, static site generators, and more. In React Quickly, Second Edition you will learn how to: Master React fundamentals Implement best practices and the components of good architecture Build intuitive user interfaces Create dynamic components with JSX Use lightweight functional components in React Make your app interactive with stateful components Utilize React hooks Handle events like button clicks and pass data between components Build your skills with React fast! There's no slow theory and tedious history in React Quickly—you'll dive into React code right from the very first chapter. As you go, you'll explore over 80 useful and practical examples that put React into action. This new second edition has been completely rewritten to cover the latest developments in the React framework. Perfect, whether you're a React beginner or an experienced pro looking to keep their skills up to date. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology React makes it a breeze to build beautiful, reliable web frontends. This amazing JavaScript library has a modular architecture, so you can create, combine, and test components seamlessly. React is perfect for small prototypes, enterprise scale sites, and everything in between. About the book React Quickly, Second Edition offers a unique approach to learning the React framework. More than 80 concise examples guide you from your first steps through advanced applications. You'll appreciate the up-to-date coverage of functional components, React hooks, and web accessibility, along with interesting projects to practice your new skill. What's inside Master React fundamentals Best practices of component-based design Create dynamic components with JSX Make your app interactive with stateful components About the reader For developers comfortable building web applications with JavaScript. About the author Morten Barklund is an expert in React, web testing, and accessibility and is the founder of Coding Heaven. Azat Mardan is a seasoned software engineer, startup mentor, and best-selling author. Table of Contents 1 Meeting React 2 Baby steps with React 3 Introduction to JSX 4 Functional Components 5 Making React interactive with states 6 Effects and the React component life cycle 7 Hooks to fuel your web applications 8 Handling events in React 9 Working with forms in React 10 Advanced React hooks for scaling 11 Project: Website menu 12 Project: Timer 13 Project: Task manager

Full Stack Quarkus and React Marc Nuri San Felix 2022-11-30 Create and deploy standalone, fully functional, web applications using Quarkus and React Key FeaturesGet up and running with web application development speedily using React and QuarkusGet an overview of how to make a Java backend work seamlessly with a JavaScript frontendLearn how to deploy your working application to Kubernetes and share it with the worldBook Description React has established itself as one of the most popular and widely adopted frameworks thanks to its simple yet scalable app development abilities. Quarkus comes across as a fantastic alternative for backend development by boosting developer productivity with features such as pre-built integrations, application services, and more that bring a new, revolutionary developer experience to Java. To make the best use of both, this hands-on guide will help you get started with Quarkus and React to create and deploy an end-to-end web application. This book is divided into three parts. In the first part, you'll begin with an introduction to Quarkus and its features, learning how to bootstrap a Quarkus project from the ground up to create a tested and secure HTTP server for your backend. The second part focuses on the frontend, showing you how to create a React project from scratch to build the application's user interface and integrate it with the Quarkus backend. The last part guides you through creating cluster configuration manifests and deploying them to Kubernetes as well as other alternatives, such as Fly.io. By the end of this full stack development book, you'll be confident in your skills to combine the robustness of both frameworks to create and deploy standalone, fully functional web applications. What you will learnCreate a Quarkus project from scratch to gain a basic understanding of its advantagesCreate a persistence layer in a Quarkus applicationSecure your application by adding authentication and authorization featuresUse Quarkus Dev services to implement integration tests with real-world databasesStart creating a React project from scratchUse React Testing Library to test React componentsIdentify the most suitable alternatives for deploying your application to the cloudWho this book is for This book is for backend web developers who have at least basic experience with Java and would like to learn React to build full stack apps by integrating it with a Quarkus-based backend. Frontend web developers with basic JavaScript experience will also find this book useful to learn how to implement a backend in Quarkus and integrate it with their frontend to create full stack web applications. Beginner-level knowledge of Java and JavaScript is recommended, but any developer experienced either with Java or JavaScript should be able to follow the backend and frontend parts easily.

The React Workshop Brandon Richey 2020-08-21 Work through engaging exercises and activities and gain practical skills to make your web applications function effortlessly with the help of React Key FeaturesExplore the React environment by creating live projectsSolve real-world problems relating to building modern web applicationsGain a thorough understanding of how data moves through different React componentsBook Description Are you interested in how React takes command of the view layer for web and mobile apps and changes the data of large web applications without needing to reload the page? This workshop will help you learn how and show you how to develop and enhance web apps using the features of the React framework with interesting examples and exercises. The workshop starts by demonstrating how to create your first React project. You'll tap into React's popular feature JSX to develop templates and use DOM events to make your project interactive. Next, you'll focus on the lifecycle of the React component and understand how components are created, mounted, unmounted, and destroyed. Later, you'll create and customize components to understand the data flow in React and how props and state communicate between components. You'll also use Formik to create forms in React to explore the concept of controlled and uncontrolled components and even play with React Router to navigate between React components. The chapters that follow will help you build an interesting image-search app to fetch data from the outside world and populate the data to the React app. Finally, you'll understand what ref API is and how it is used to manipulate DOM in an imperative way. By the end of this React book, you'll have the skills you need to set up and create web apps using React. What you will learnUse JSX to include logic in the view layer of applicationsGet familiar with the important methods and events in the React lifecycleDistinguish between class and functional component syntaxesCreate forms with Formik and handle errorsUnderstand the React Hooks API and the problems it can solveFetch outside data using the Axios library and populate the data to the appWho this book is for The React Workshop is for web developers and programmers who are looking to learn React and use it for creating and enhancing web applications. Although the workshop is for beginners, prior knowledge of JavaScript programming and HTML and CSS is

necessary to easily understand the concepts that are covered.

React and React Native Adam Boduch 2018-09-28 Build applications for web and native mobile platforms with React, JSX, Redux, and GraphQL Key Features Explore how functional web development works with React, Redux, and React Native Build apps with unified architecture with Facebook's React, Relay, and GraphQL Understand the platform in-depth, from routing to server-side rendering Book Description This book takes you through using React 16 and React Native 0.5 to create powerful and engaging desktop mobile and native applications for all platforms. You start by learning how to craft composable UIs using React, ranging from rendering with JSX and creating reusable components to routing and creating isomorphic applications that run on Node.js. We then move on to show you how to take the concepts of React and apply them to building Native UIs using React Native. You'll find out how to build responsive and streamlined UIs that can properly handle user interactions in a mobile environment. You'll also learn how to access device-specific APIs such as the Geolocation API, and how to handle offline development with React Native. You will master handling application state, Unified Information Architecture, and using Flux, Redux, and Relay. Towards the end of the book, you will learn how Flux ideas are encapsulated within React components using Relay and apply all the skills learned so far to create a React application that runs on every major platform. What you will learn Learn what has changed in React 16 and how you stand to benefit Craft reusable components using the React virtual DOM Learn how to use the new create-react-native-app command line tool Augment React components with GraphQL for data using Relay Handle state for architectural patterns using Flux Build an application for web UIs using Relay Who this book is for This book is written for any JavaScript developer--beginner or expert--who wants to start learning how to put both of Facebook's UI libraries to work. No knowledge of React is needed, though a working knowledge of ES2017 will help you follow along better.

Functional Web Development with Elixir, OTP, and Phoenix Lance Halvorsen 2018-01-25 Elixir and Phoenix are generating tremendous excitement as an unbeatable platform for building modern web applications. For decades OTP has helped developers create incredibly robust, scalable applications with unparalleled uptime. Make the most of them as you build a stateful web app with Elixir, OTP, and Phoenix. Model domain entities without an ORM or a database. Manage server state and keep your code clean with OTP Behaviours. Layer on a Phoenix web interface without coupling it to the business logic. Open doors to powerful new techniques that will get you thinking about web development in fundamentally new ways. Elixir and OTP provide exceptional tools to build rock-solid back-end applications that scale. In this book, you'll build a web application in a radically different way, with a back end that holds application state. You'll use persistent Phoenix Channel connections instead of HTTP's request-response, and create the full application in distinct, decoupled layers. In Part 1, start by building the business logic as a separate application, without Phoenix. Model the application domain with Elixir functions and simple data structures. By keeping state in memory instead of a database, you can reduce latency and simplify your code. In Part 2, add in the GenServer Behaviour to make managing in-memory state a breeze. Create a supervision tree to boost fault tolerance while separating error handling from business logic. Phoenix is a modern web framework you can layer on top of business logic while keeping the two completely decoupled. In Part 3, you'll do exactly that as you build a web interface with Phoenix. Bring in the application from Part 2 as a dependency to a new Phoenix project. Then use ultra-scalable Phoenix Channels to establish persistent connections between the stateful server and a stateful front-end client. You're going to love this way of building web apps! What You Need: You'll need a computer that can run Elixir version 1.5 or higher and Phoenix 1.3 or higher. Some familiarity with Elixir and Phoenix is recommended.

Taming the State in React Robin Wieruch 2018-05-08 The book dives deeply into state management in React. You will learn everything about React's local state and state management with Redux and MobX. It comes with a lot of best practices, techniques and concepts. Along the way you will have practical hands on experiences by building own applications. The book turned out to exceed all my expectations. What started as an attempt to write a introductory book about state management in React with Redux, turned out into a full blown 250-page book which showcases MobX as alternative state management library, implements exciting applications along the way and has boilerplate projects to get you started in learning and building applications with these libraries. The bigger idea was to write a book which gives learners a consistent way to study the topic state management. I had the feeling that there exist way too many, partly inconsistent or outdated, tutorials around these topics and it is hard for learners to choose from so many opportunities. I thought, one well structured book should help newcomers to get started easily in the topic of state management with React's local state, Redux and MobX. Afterward, everyone should be on one well set level to build his/her own applications with Redux or MobX. The book teaches you how to use local state in React and scaling React applications with advanced practices, patterns and techniques. Afterward, the ebook dives into learning Redux and MobX as libraries for state management. These libraries are taught from scratch without React but in combination with React later on. However, all these learnings are not necessarily bound to React as view layer library. They can be applied in other view layer (component based) libraries, such as Vue.js, or single page application (SPA) frameworks, such as Angular.js, too. If you are new to React and want to learn React before, I recommend you to read the up to date book The Road to learn React. Due to Redux's popularity, the book teaches more about Redux than MobX. But it is planned to grow the MobX part too, because I am really into that library as well. For both state management libraries, Redux and MobX, you will learn to use them standalone, to connect them to React applications in multiple ways, and to apply best practices, patterns and tricks to scale them in larger applications. You will learn about using JavaScript ES6 to keep your state immutable, middleware in Redux, and flat and normalized state structures. Afterward, the terms actions, reducers, store(s), connected components and so on, will not be foreign subjects to you anymore. After reading the book, I believe you are ready to build your own applications in any (view layer) library or SPA framework of your choice with Redux or MobX. But when using React, you are setup with advanced knowledge about React's local state to use it in larger applications.

Learning React Kirupa Chinnathambi 2016-12-27 Learning React A hands-on guide to building maintainable, high-performing web application user interfaces using the React JavaScript library As far as new web frameworks and libraries go, React is quite the runaway success. It not only deals with the most common problems developers face when building complex apps, it throws in a few additional tricks that make building the visuals for such apps much, much easier. What React isn't, though, is beginner-friendly and approachable. Until now. In Learning React, author Kirupa Chinnathambi brings his fresh, clear, and very personable writing style to help you understand the fundamentals of React and how to use it to build really performant (and awesome) apps. Build your first React app Create components to define parts of your UI Combine components into other components to build more complex UIs Use JSX to specify visuals without writing full-fledged JavaScript Deal with maintaining state Work with React's way of styling content Make sense of the mysterious component lifecycle Build multi-page apps using routing and views Optimize your React workflow using tools such as Node, Babel, webpack, and others Contents at a Glance Chapter 1 Introducing React Chapter 2 Building Your First React App Chapter

3 Components in React Chapter 4 Styling in React Chapter 5 Creating Complex Components Chapter 6 Transferring Properties (Props) Chapter 7 Meet JSX-Again! Chapter 8 Dealing with State Chapter 9 Going from Data to UI Chapter 10 Working with Events Chapter 11 The Component Lifecycle Chapter 12 Accessing DOM Elements Chapter 13 Creating a Single-Page App Using React Router Chapter 14 Building a Todo List App Chapter 15 Setting Up Your React Development Environment Chapter 16 The End Chapter 17 (Web Edition) Working With External Data Chapter 18 (Web Edition) Creating a Sliding Menu Using React Motion Register your book at informit.com/register for free access to the Web Edition and two exclusive bonus chapters.

Learning React Alex Banks 2020-06-12 If you want to learn how to build efficient React applications, this is your book. Ideal for web developers and software engineers who understand how JavaScript, CSS, and HTML work in the browser, this updated edition provides best practices and patterns for writing modern React code. No prior knowledge of React or functional JavaScript is necessary. With their learning road map, authors Alex Banks and Eve Porcello show you how to create UIs that can deftly display changes without page reloads on large-scale, data-driven websites. You'll also discover how to work with functional programming and the latest ECMAScript features. Once you learn how to build React components with this hands-on guide, you'll understand just how useful React can be in your organization. Understand key functional programming concepts with JavaScriptLook under the hood to learn how React runs in the browserCreate application presentation layers with React componentsManage data and reduce the time you spend debugging applicationsIncorporate React Hooks to manage state and fetch dataUse a routing solution for single-page application featuresLearn how to structure React applications with servers in mind

Learning React Alex Banks (Software engineer) 2017 If you want to learn how to build efficient user interfaces with React, this is your book. Authors Alex Banks and Eve Porcello show you how to create UIs with this small JavaScript library that can deftly display data changes on large-scale, data-driven websites without page reloads. Along the way, you'll learn how to work with functional programming and the latest ECMAScript features. Developed by Facebook, and used by companies including Netflix, Walmart, and The New York Times for large parts of their web interfaces, React is quickly growing in use. By learning how to build React components with this hands-on guide, you'll fully understand how useful React can be in your organization. Learn key functional programming concepts with JavaScriptPeek under the hood to understand how React runs in the browser; Create application presentation layers by mounting and composing React components; Use component trees to manage data and reduce the time you spend debugging applications; Explore React's component lifecycle and use it to load data and improve UI performance; Use a routing solution for browser history, bookmarks, and other features of single-page applications; Learn how to structure React applications with servers in mind.

Real-Time Phoenix Stephen Bussey 2020-03-25 Give users the real-time experience they expect, by using Elixir and Phoenix Channels to build applications that instantly react to changes and reflect the application's true state. Learn how Elixir and Phoenix make it easy and enjoyable to create real-time applications that scale to a large number of users. Apply system design and development best practices to create applications that are easy to maintain. Gain confidence by learning how to break your applications before your users do. Deploy applications with minimized resource use and maximized performance. Real-time applications come with real challenges - persistent connections, multi-server deployment, and strict performance requirements are just a few. Don't try to solve these challenges by yourself - use a framework that handles them for you. Elixir and Phoenix Channels provide a solid foundation on which to build stable and scalable real-time applications. Build applications that thrive for years to come with the best-practices found in this book. Understand the magic of real-time communication by inspecting the WebSocket protocol in action. Avoid performance pitfalls early in the development lifecycle with a catalog of common problems and their solutions. Leverage GenStage to build a data pipeline that improves scalability. Break your application before your users do and confidently deploy them. Build a real-world project using solid application design and testing practices that help make future changes a breeze. Create distributed apps that can scale to many users with tools like Phoenix Tracker. Deploy and monitor your application with confidence and reduce outages. Deliver an exceptional real-time experience to your users, with easy maintenance, reduced operational costs, and maximized performance, using Elixir and Phoenix Channels. What You Need: You'll need Elixir 1.9+ and Erlang/OTP 22+ installed on a Mac OS X, Linux, or Windows machine.

Learn React. Js by Building Games Samer Buna 2018-03 Learn fundamental and advanced concepts of React.js by building four simple browser games. Topics Covered React Fundamentals Elements and Components The JSX Extension Props and State Events and User Input Clean Code and Refactoring Performance Optimization React API Common React Development Problems *React for Real* Ludovico Fischer 2017 An introduction to components -- Work with state and events -- Create a production build -- Test your React components -- Using Redux as a central data store - - Work well with others

Learn React Hooks Daniel Bugl 2019-10-18 Create large-scale web applications with code that is extensible and easy to understand using React Hooks Key FeaturesExplore effective strategies for migrating your state management from Redux and MobX to React HooksIntegrate Hooks with React features such as Context and Suspense to add advanced functionality to your web appsCreate complex applications by combining multiple hooksBook Description React Hooks revolutionize how you manage state and effects in your web applications. They enable you to build simple and concise React.js applications, along with helping you avoid using wrapper components in your applications, making it easy to refactor code. This React book starts by introducing you to React Hooks. You will then get to grips with building a complex UI in React while keeping the code simple and extensible. Next, you will quickly move on to building your first applications with React Hooks. In the next few chapters, the book delves into various Hooks, including the State and Effect Hooks. After covering State Hooks and understanding how to use them, you will focus on the capabilities of Effect Hooks for adding advanced functionality to React apps. You will later explore the Suspense and Context APIs and how they can be used with Hooks. Toward the concluding chapters, you will learn how to integrate Redux and MobX with React Hooks. Finally, the book will help you develop the skill of migrating your existing React class components, and Redux and MobX web applications to Hooks. By the end of this book, you will be well-versed in building your own custom Hooks and effectively refactoring your React applications. What you will learnUnderstand the fundamentals of React Hooks and how they modernize state management in React appsBuild your own custom Hooks and learn how to test themUse community Hooks for implementing responsive design and moreLearn the limitations of Hooks and what you should and shouldn't use them forGet to grips with implementing React context using HooksRefactor your React-based web application, replacing existing React class components with HooksUse state management solutions such as Redux and MobX with React HooksWho this book is for This book is for React developers who want to learn how to build applications with Hooks. Developers who are looking to migrate to React for its advanced feature set and capabilities will also find the book useful.