

## Complex State Management With Redux Pro React

Build stylish, slick, and speedy-to-load user interfaces in React without writing custom classes. React Hooks are a new category of functions that help you to manage state, lifecycle, and side effects within functional components. With React Hooks in Action, you'll be a more effective React developer. React Hooks in Action shows you how to use Hooks to make your codebase simpler and more reusable, and your applications faster and more responsive. As you build a resource-booking example application, you'll learn to develop components with local, shared, and application states. Along the way, you'll discover different approaches to data fetching to improve user experience, and you'll explore third party hooks in the evolving React ecosystem. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

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.

Build consistent web apps with Redux by easily centralizing the state of your application. About This Book Write applications that behave consistently, run in different environments (client, server and native), and are easy to test. Take your web apps to the next level by combining the power of Redux with other frameworks such as React and Angular. Uncover the best practices and hidden features of Redux to build applications that are powerful, consistent, and maintainable. Who This Book Is For This book targets developers who are already fluent in JavaScript but want to extend their web development skills to develop and maintain bigger applications. What You Will Learn Understand why and how Redux works. Implement the basic elements of Redux. Use Redux in combination with React/Angular to develop a web application. Debug a Redux application. Interface with external APIs with Redux. Implement user authentication with Redux. Write tests for all elements of a Redux application. Implement simple and more advanced routing with Redux. Learn about server-side rendering with Redux and React. Create higher-order reducers for Redux. Extend the Redux store via middleware. In Detail The book starts with a short introduction to the principles and the ecosystem of Redux, then moves on to show how to implement the basic elements of Redux and put them together. Afterward, you are going to learn how to integrate Redux with other frameworks, such as React and Angular. Along the way, you are going to develop a blog application. To practice developing growing applications with Redux, we are going to start from nothing and keep adding features to our application throughout the book. You are going to learn how to integrate and use Redux DevTools to debug applications, and access external APIs with Redux. You are also going to get acquainted with writing tests for all elements of a Redux application. Furthermore, we are going to cover important concepts in web development, such as routing, user authentication, and communication with a backend server. After explaining how to use Redux and how powerful its ecosystem can be, the book teaches you how to make your own abstractions on top of Redux, such as higher-order reducers and middleware. By the end of the book, you are going to be able to develop and maintain Redux applications with ease. In addition to learning about Redux, you are going to be familiar with its ecosystem, and learn a lot about JavaScript itself, including best practices and patterns. Style and approach This practical guide will teach you how to develop a complex, data-intensive application leveraging the capabilities of the Redux framework.

State management is a critical part of app development but is often done unsystematically. Redux helps you manage state more efficiently, leading to JavaScript applications that behave more consistently and are easier to test. This course starts off with a practical introduction to Redux and how it fits into the JavaScript ecosystem, including the React library. As you move through the course, you can learn how to use Redux and work with JavaScript ES6/7, reducers, firing actions, thanks, and selectors. Instructor Richard Gill spends the final chapter using these Redux features in a real-world application—a messaging board similar to Reddit. By the end of the training, you will be able to apply all the concepts to a real project and understand how Redux can dramatically simplify the development of any JavaScript application. Note: This course was created by Packt Publishing.

The Road to learn React teaches you the fundamentals of React. You will build a real world application along the way in plain React without complicated tooling. Everything from project setup to deployment on a server will be explained. The book comes with additional referenced reading material and exercises with each chapter. After reading the book, you will be able to build your own applications in React. The material is kept up to date by me and the community. In the Road to learn React, I want to offer a foundation before you start to dive into the broader React ecosystem. It has less tooling and less external state management, but a lot of information around React. It explains general concepts, patterns and best practices in a real world React application. You will learn to build your own React application. It covers real world features like pagination, client-side caching and interactions like searching and sorting. Additionally you will transition from JavaScript ES5 to JavaScript ES6 along the way. I hope this book captures my enthusiasm for React and JavaScript and helps you to get started.

ASP .NET Core is a powerful framework to architect a powerful backend for scalable web applications. Combined with

the solid front-end development capabilities of React, you will be reinforced to build a solid full-stack web. With this book, we will teach .NET developers how to harness the full potential of React using ASP.NET Core as the backbone.

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 1 Introducing React 2 Building Your First React App 3 Components in React 4 Styling in React 5 Creating Complex Components 6 Transferring Properties 7 Meet JSX... Again! 8 Dealing with State in React 9 Going from Data to UI in React 10 Events in React 11 The Component Lifecycle 12 Accessing DOM Elements in React 13 Setting Up Your React Dev Environment 14 Working with External Data in React 15 Building an Awesome Todo List App in React 16 Creating a Sliding Menu in React 17 Avoiding Unnecessary Renders in React 18 Creating a Single-Page App in React Using React Router 19 Introduction to Redux 20 Using Redux with React

An example-driven guide covering modern web app development techniques and emerging technologies such as WebAssembly, Service Workers, and Svelte.js to build faster, secure, and scalable apps Key Features Discover effective techniques for accessing DOM, minimizing painting, and using a V8 engine to optimize JavaScript Understand what makes the web tick and create apps that look and feel like native desktop applications Explore modern JavaScript frameworks like Svelte.js for building next-gen web apps Book Description High-performance web development is all about cutting through the complexities in different layers of a web app and building services and APIs that improve the speed and performance of your apps on the browser. With emerging web technologies, building scalable websites and sustainable web apps is smoother than ever. This book starts by taking you through the web frontend, popular web development practices, and the latest version of ES and JavaScript. You'll work with Node.js and learn how to build web apps without a framework. The book consists of three hands-on examples that help you understand JavaScript applications at both the server-side and the client-side using Node.js and Svelte.js. Each chapter covers modern techniques such as DOM manipulation and V8 engine optimization to strengthen your understanding of the web. Finally, you'll delve into advanced topics such as CI/CD and how you can harness their capabilities to speed up your web development dramatically. By the end of this web development book, you'll have understood how the JavaScript landscape has evolved, not just for the frontend but also for the backend, and be ready to use new tools and techniques to solve common web problems. What you will learn Explore Vanilla JavaScript for optimizing the DOM, classes, and modules, and querying with jQuery Understand immutable and mutable code and develop faster web apps Delve into Svelte.js and use it to build a complete real-time Todo app Build apps to work offline by caching calls using service workers Write C++ native code and call the WebAssembly module with JavaScript to run it on a browser Implement CircleCI for continuous integration in deploying your web apps Who this book is for This JavaScript book is for web developers, C/C++ programmers, and anyone who wants to build robust web applications using advanced web technologies. This book assumes a good grasp of Vanilla JavaScript and an understanding of web development tools, such as Chrome Developer tools or Mozilla's developer tools.

React today is one of the most loved and preferred choices for front-end development. Using React with TypeScript enhances development experience and offers a powerful combination to develop high performing web apps. This book will take you through a journey of web development with the help of the latest version of React and TypeScript 3.

When traditional web development techniques don't cut it, try React. Use React to create highly interactive web pages faster and with fewer errors. With a little JavaScript experience under your belt, you'll be up and running in no time creating dynamic web applications. Craft isolated components that make your apps easier to develop and maintain, with plenty of guidance on best practices. Set up automated tests, and make pages render fast for your users. See how to use your React skills to integrate with other front-end technologies when needed. Dive right into React by defining components, the basic building blocks of a React application. Integrate modern JavaScript language features such as classes and arrow functions in your app. Analyze the relationships in your data to isolate state, and sync the data model with what your users see. Once you're familiar with how a React application works, organize your code base with modules. Configure a production build and deliver your app as efficiently as possible with Webpack. Master testing with React-specific advice and tools to catch the most bugs with the least amount of code. Learn the basics of the Redux library. Define actions and manage an immutable central state with reducers, then connect Redux to your React components to build even larger and more complex interfaces. Package your React code as a standalone widget so anyone can use it in their own applications. Reuse existing JavaScript code in your React components, and build a new React view on top of an existing data model shared with a legacy application. When you finish this book, you'll be well on your way to solving your front-end problems with React. What You Need: Node.js 6.x or later, and a modern web browser.

Build rich and collaborative applications using client-side code with React, Redux, and Firebase Key Features 1) A practical guide covering the full stack for web development with React 16 and Firebase 2) Leverage the power of Firebase Cloud Storage, messaging, functions, OAuth, and database security to develop serverless web applications. 3) Develop high-performance applications without the hassle of setting up complex web infrastructure. Book Description ReactJS is a wonderful framework for UI development. Firebase as a backend with React is a great choice as it is easy, powerful, and provides great developer experience. It removes a lot of boilerplate code from your app and allows you to focus on your app to get it out quickly to users. Firebase with React is also a good choice for Most Viable Product (MVP) development.

This book provides more practical insights rather than just theoretical concepts and includes basic to advanced examples – from hello world to a real-time seat booking app and Helpdesk application This book will cover the essentials of Firebase and React.js and will take you on a fast-paced journey through building real-time applications with Firebase features such as Cloud Storage, Cloud Function, Hosting and the Realtime Database. We will learn how to secure our application by using Firebase authentication and database security rules. We will leverage the power of Redux to organize data in the front-end, since Redux attempts to make state mutations predictable by imposing certain restrictions on how and when updates can happen. Towards the end of the book you will have improved your React skills by realizing the potential of Firebase to create real-time serverless web applications. What you will learn Install powerful React.js and Firebase tools to make development much more efficient Create React components with Firebase to save and retrieve the data in real-time Use Firebase Authentication to make your React user interface secure Develop React and Firebase applications with Redux integration Firebase database security rules Firebase Cloud Storage Integration to upload and store data on the cloud Create a complete real-time application with React and firebase Using Firebase Cloud messaging and Cloud functions with React Firebase Cloud Storage integration with React Who this book is for This book is for JavaScript developers who have some previous knowledge of React and want to develop serverless, full-stack applications but without the hassle of setting up a complex infrastructure.

Harness the power of React Native to build 4 real-world apps Key Features Build quirky and fun projects from scratch and become efficient with React Native Learn to build professional Android and iOS applications using your existing JavaScript knowledge Use isomorphic principles to build mobile apps that offer a native user experience Embedded with assessments that will help you revise the concepts you have learned in this course Book Description React Native helps web and mobile developers to build cross-platform apps that perform at the same level as any other natively developed app. The range of apps that can be built using this library is huge. From e-commerce to games, React Native is a good fit for any mobile project due to its flexibility and extendable nature. This project-based book consists of four standalone projects. Each project will help you gain a sound understanding of the framework and build mobile apps with native user experience. Starting with a simple standalone car booking app, you will progressively move on to building advanced apps by adding connectivity with external APIs, using native features, such as the camera or microphone, in the mobile device, integrating with state management libraries such as Redux or MobX, or leveraging React Native's performance by building a full-featured game. This book is ideal for developers who want to build amazing cross-platform apps with React Native. This book is embedded with useful assessments that will help you revise the concepts you have learned in this book. What you will learn Structure React Native projects to ease maintenance and extensibility Optimize a project to speed up development Use external modules to speed up the development and maintenance of your projects Explore the different UI and code patterns to be used for iOS and Android Get to know the best practices when building apps in React Native Who this book is for This book is for developers who want to build amazing cross-platform apps with React Native.

You'll learn how to master text, links, graphics, and imagemaps; design a unique Web site that's fun to use; create animated graphics; make a visitor counter to see how many folks are dropping by your site; get advertisers for your Web site.

Learn how to simplify JavaScript development by using Redux for state management in larger applications.

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

Apply functional Reactive programming for simple and scalable state management with MobX Key Features The easiest way to learn MobX to enhance your client-side state-management Understand how the concepts and components fit together Work through different state management scenarios with MobX Book Description MobX is a simple and highly scalable state management library in JavaScript. Its abstractions can help you manage state in small to extremely large applications. However, if you are just starting out, it is essential to have a guide that can help you take the first steps. This book aims to be that guide that will equip you with the skills needed to use MobX and effectively handle the state management aspects of your application. You will first learn about observables, actions, and reactions: the core concepts of MobX. To see how MobX really shines and simplifies state management, you'll work through some real-world use cases. Building on these core concepts and use cases, you will learn about advanced MobX, its APIs, and libraries that extend MobX. By the end of this book, you will not only have a solid conceptual understanding of MobX, but also practical experience. You will gain the confidence to tackle many of the common state management problems in your own projects. What you will learn Explore the fundamental concepts of MobX, such as observables, actions, and reactions Use observables to track state and react to its changes with validations and visual feedback (via React Components) Create a MobX observable from different data types Define form data as an observable state and tackle sync and async form validations Use the special APIs to directly manipulate observables, tracking its changes, and discovering the reasons behind a change Tackle any state management issue you may have in your app by combining mobx-utils and mobx-state-tree Explore the internals of the MobX reactive system by diving into its inner workings Who this book is for This book is for web developers who want to implement easy and scalable state management for their apps. Knowledge of HTML, CSS, and JavaScript is assumed

Step through each of the core concepts of the jQuery library, building an overall picture of its capabilities. Once you have thoroughly covered the basics, the book returns to each concept to cover more advanced examples and techniques. This book is for web designers who want to create interactive elements for their designs, and for developers who want to create the best user interface for their web applications. Basic JavaScript programming and knowledge of HTML and CSS is required. No knowledge of jQuery is assumed, nor is experience with any other JavaScript libraries.

A project based guide to help you get started with web development by building real-world and modern web applications

About This Book Learn JavaScript from scratch by building clones of popular web applications Understand the core concepts and techniques surrounding JavaScript with this power-packed hands-on guide Explore modern JavaScript frameworks and libraries such as Node, React and Webpack Who This Book Is For The target audience for this book is developers with little or basic knowledge of working with JavaScript. If you are an emerging web developer with experience in building static web pages using HTML and CSS, this book will teach you to add JavaScript elements to make your website interactive and dynamic. What You Will Learn A strong understanding of web application development with JavaScript and ES6. A firm foundation on which to master other JavaScript frameworks and libraries. Write maintainable and scalable code by organizing functions into modules. Importance of tools such as Node, NPM, Babel, and Webpack in Front-end development. Work with real-time data such as incoming video streams, texts, and so on Integrate React with JavaScript to build large-scale applications. Utilize Redux to manage data across React components and greatly speed up the development process In Detail JavaScript is the programming language that all web developers need to learn. The first item on our JavaScript to-do list is building a To-do list app, which you'll have done by the end of the first chapter. You'll explore DOM manipulation with JavaScript and work with event listeners. You'll work with images and text to build a Meme creator. You will also learn about ES (ECMAScript) classes, and will be introduced to layouts using the CSS3 Flexbox. You'll also develop a responsive Event Registration form that allows users to register for your upcoming event and use charts and graphics to display registration data. You will then build a weather application, which will show you different ways perform AJAX requests and work with dynamic, external data. WebRTC enables real-time communication in a web browser; you'll learn how to use it when you build a real-time video-call and chat application later in the book. Towards the end of the book, you will meet React, Facebook's JavaScript library for building user interfaces. You'll throw together a blog with React, and get a feel for why this kind of JavaScript framework is used to build large-scale applications. To make your blog more maintainable and scalable, you'll use Redux to manage data across React components. Style and approach This project-based guide will teach you all the facets of JavaScript through real-world app examples.

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

Create large-scale web applications with code that is extensible and easy to understand using React Hooks Key Features Explore effective strategies for migrating your state management from Redux and MobX to React Hooks Integrate Hooks with React features such as Context and Suspense to add advanced functionality to your web apps Create complex applications by combining multiple hooks Book 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 learn Understand the fundamentals of React Hooks and how they modernize state management in React apps Build your own custom Hooks and learn how to test them Use community Hooks for implementing responsive design and more Learn the limitations of Hooks and what you should and shouldn't use them

for Get to grips with implementing React context using Hooks Refactor your React-based web application, replacing existing React class components with Hooks Use state management solutions such as Redux and MobX with React Hooks Who 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. React helps you create and work on an app in just a few minutes. But learning how to put all the pieces together is hard. How do you validate a form? Or implement a complex multistep user action without writing messy code? How do you test your code? Make it reusable? Wire it to a backend? Keep it easy to understand? The React Cookbook delivers answers fast. Many books teach you how to get started, understand the framework, or use a component library with React, but very few provide examples to help you solve particular problems. This easy-to-use cookbook includes the example code developers need to unravel the most common problems when using React, categorized by topic area and problem. You'll learn how to: Build a single-page application in React using a rich UI Create progressive web applications that users can install and work with offline Integrate with backend services such as REST and GraphQL Automatically test for accessibility problems in your application Secure applications with fingerprints and security tokens using WebAuthn Deal with bugs and avoid common functional and performance problems

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. Redux Made Easy with Rematch is a hands-on guide to implementing associated methodologies that will help you get up and running with Rematch in no time. With this book, you'll get well-versed with the basics of Redux and Rematch and understand how they work.

Use the enormously popular React framework to build dynamic JavaScript applications that take advantage of the capabilities of modern browsers and devices. You will learn how React brings the power of strong architecture and responsive data to the client, providing the foundation for complex and rich user interfaces. Best-selling author Adam Freeman explains how to get the most from React. He begins by describing the React architecture and the benefits it offers and then shows you how to use React and its associated tools and libraries in your projects, starting from the nuts and bolts and building up to the most advanced and sophisticated features, going in-depth to give you the knowledge you need. Each topic is presented clearly and concisely. Chapters include common problems and how to avoid them. What You'll Learn Gain a solid understanding of the React design Create rich and dynamic web app clients using React Create data stores using Redux Consume data using REST and GraphQL Test your React projects Who This Book Is For JavaScript developers who want to use React to create dynamic client-side applications

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

### Performing Complex State Management with Redux

Learn to write real-world enterprise apps using the fundamentals of React and the most popular React libraries. Knowing the basics of React is important, but what is more important is knowing the common third-party libraries and how to use them. This book features popular libraries such as React Router v6 for route navigation, Redux with Saga and Thunk for state management, and Formik with Yup for form and input validations. You'll also work with Material UI 5 (the next major version of the most popular UI component library in React), Axios as the HTTP client library, JWT auth for client app authentication, and TypeScript. Finally, you'll learn to deploy the app to Netlify, and containerize the React app to ship it as a standalone container instance or in a Kubernetes cluster. Become a more effective React developer by using what is available out there instead of trying to reinvent the wheel. This book reveals how to save time and money, and build better apps for your clients. Get practical with React enterprise app development and enhance your career. What You'll Learn Use TypeScript in React Work with Redux, Saga, and Thunk, along with TypeScript Validate forms and inputs without writing too much code Use Material UI Secure the React app by building a login form and protecting the routes Who This Book Is For Those interested in writing React enterprise apps. Knowledge of HTML, CSS and JavaScript/TypeScript is required, and experience with JavaScript libraries/frameworks would be useful.

Leverage frontend development skills to build impressive iOS and Android applications with React Native About This Book Apply flexbox to get layout and build rich animations that bring your React Native application to life Integrate third-party libraries and develop customized components that run natively on iOS and Android platforms Combine React Native with Redux, Redux middleware, and a remote API to build scalable data-driven applications Who This Book Is For This book is for anyone who wants to build cross-platform native mobile applications using only JavaScript and the React Native framework. In particular, this book is especially useful for front-end developers who want to use their current skillset to build mobile applications. An existing working knowledge of JavaScript will help you get the most out of this book. What You Will Learn Implement native React Native components and APIs Explore React's JSX syntax Manage data using Redux and

Redux middleware Build applications with React Native on both iOS and Android platforms Perform animations in your applications using the animation APIs Understand routing and Navigator comparison Create your own Native module In Detail React Native has completely revolutionized mobile development by empowering JavaScript developers to build world-class mobile apps that run natively on mobile platforms. This book will show you how to apply JavaScript and other front-end skills to build cross-platform React Native applications for iOS and Android using a single codebase. This book will provide you with all the React Native building blocks necessary to become an expert. We'll give you a brief explanation of the numerous native components and APIs that come bundled with React Native including Images, Views, ListViews, WebViews, and much more. You will learn to utilize form inputs in React Native. You'll get an overview of Facebook's Flux data architecture and then apply Redux to manage data with a remote API. You will also learn to animate different parts of your application, as well as routing using React Native's navigation APIs. By the end of the book, you will be able to build cutting-edge applications using the React Native framework. Style and approach This comprehensive guide will take your React Native skills to the next level. It shows you how to develop a clear workflow to build scalable applications, and how to implement the architectural concepts covered to build applications that shine in the real world.

Integrate Redux with React and other front-end JavaScript frameworks efficiently and manage application states effectively Key Features Get better at building web applications with state management using Redux Learn the fundamentals of Redux to structure your app more efficiently This guide will teach you develop complex apps that would be easier to maintain Book Description Starting with a detailed overview of Redux, we will follow the test-driven development (TDD) approach to develop single-page applications. We will set up JEST for testing and use JEST to test React, Redux, Redux-Saga, Reducers, and other components. We will then add important middleware and set up immutableJS in our application. We will use common data structures such as Map, List, Set, and OrderedList from the immutableJS framework. We will then add user interfaces using ReactJS, Redux-Form, and Ant Design. We will explore the use of react-router-dom and its functions. We will create a list of routes that we will need in order to create our application, and explore routing on the server site and create the required routes for our application. We will then debug our application and integrate Redux Dev tools. We will then set up our API server and create the API required for our application. We will dive into a modern approach to structuring our server site components in terms of Model, Controller, Helper functions, and utilities functions. We will explore the use of NodeJS with Express to build the REST API components. Finally, we will venture into the possibilities of extending the application for further research, including deployment and optimization. What you will learn Follow the test-driven development (TDD) approach to develop a single-page application Add important middleware, such as Redux store middleware, redux-saga middleware, and language middleware, to your application Understand how to use immutableJS in your application Build interactive components using ReactJS Configure react-router-redux and explore the differences between react-router-dom and react-router-redux Use Redux Dev tools to debug your application Set up our API server and create the API required for our application Who this book is for This book is meant for JavaScript developers interesting in learning state management and building easy to maintain web applications.

Since the first edition was published in 1992, there has been a tremendous amount of change in the arena of human services organizations. This book in many ways laid a critical framework of viewing human service organizations as a separate entity than mainstream organizations and management. It sets the foundation to view human services differently because human services organizations work on people and therefore have a different set of principles to take into consideration. It presented the idea of viewing human services organizations as organizations that process people as raw material (people processing or people changing). The new edition will pay particular attention to the cultural perspective and social justice as well as the feminist approach and the view that human services organizations are gendered (i.e., that mostly women work in human services except for men in management). It also will address the issue of advocacy and agents of social change.

Summary With Redux in Action, you'll discover how to integrate Redux into your React application and development environment. With the insights you glean from the experience of authors Marc Garreau and Will Faurot, you'll be more than confident in your ability to solve your state management woes with Redux and focus on developing the apps you need! Foreword by Mark Erikson, Redux co-maintainer. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology With Redux, you manage the state of a web application in a single, simple object, practically eliminating most state-related bugs. Centralizing state with Redux makes it possible to quickly start saved user sessions, maintain a reliable state history, and smoothly transfer state between UIs. Plus, the Redux state container is fully programmable and integrates cleanly with React and other popular frameworks. About the Book Redux in Action is an accessible guide to effectively managing state in web applications. Built around common use cases, this practical book starts with a simple task-management application built in React. You'll use the app to learn the Redux workflow, handle asynchronous actions, and get your hands on the Redux developer tools. With each step, you'll discover more about Redux and the benefits of centralized state management. The book progresses to more-complex examples, including writing middleware for analytics, time travel debugging, and an overview of how Redux works with other frameworks such as Angular and Electron. What's Inside Using Redux in an existing React application Handling side effects with the redux-saga library Consuming APIs with asynchronous actions Unit testing a React and Redux application About the Reader For web developers comfortable with JavaScript and React. About the Author Marc Garreau has architected and executed half a dozen unique client-side applications using Redux. Will Faurot is a mentor for Redux developers of all skill levels. Table of Contents Introducing Redux Your first Redux application Debugging Redux applications Consuming an API Middleware Handling complex side effects Preparing data for components Structuring a Redux store Testing Redux applications Performance Structuring Redux code Redux beyond React

To the distinguished economic historian Jonathan Hughes, the ambiguous outcomes of attempted deregulation signal America's urgent need to probe the origins of our vast and chaotic maze of government economic controls. Why do government restrictions on the economy continue to proliferate, in spite of avowed efforts to allow the market a freer rein? How did this complicated network of nonmarket economic controls come about and whose purposes does it serve? How can we render such controls less destructive of productivity and wealth-creating activity? While exploring these questions, Jonathan Hughes updates his classic book *The Governmental Habit* to reflect the experience of what he calls the "wild ride" of the last fifteen years and to include a survey of new thinking about the problems of government intervention and control of economic life. Hughes's comprehensive work provides a narrative history of governmental involvement in the U.S. economy from the colonial period to the present, arguing convincingly that the "governmental habit" is deeply rooted in the country's past. In the lively and accessible style of the earlier book, *The Governmental Habit Redux* contends that modern American government is basically an enormous version of American colonial regimes. Changes in scale have transformed what was once an acceptable pattern into a conglomeration of inefficient and wasteful bureaucracies. Originally published in 1991. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

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

Summary React Native in Action gives iOS, Android, and web developers the knowledge and confidence they need to begin building high-quality iOS and Android apps using the React Native framework. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology React Native gives mobile and web developers the power of "and." Write your app once and easily deploy it to iOS and Android and the web. React Native apps compile into platform-specific code, reducing development time, effort, and cost! And because you're using JavaScript and the React framework, you benefit from a huge ecosystem of tools, expertise, and support. About the Book React Native in Action teaches you to build high-quality cross-platform mobile and web apps. In this hands-on guide, you'll jump right into building a complete app with the help of clear, easy-to-follow instructions. As you build your skills, you'll drill down to more-advanced topics like styling, APIs, animations, data architecture, and more! You'll also learn how to maximize code reuse without sacrificing native platform look-and-feel. What's Inside Building cross-platform mobile and web apps Routing, Redux, and animations Cross-network data requests Storing and retrieving data locally Managing data and state About the Reader Written for beginner-to-intermediate web, Android, and iOS developers. About the Authors Nader Dabit is a developer advocate at AWS Mobile, where he works on tools and services to allow developers to build full-stack web and mobile applications using their existing skillset. He is also the founder of React Native Training and the host of the "React Native Radio" podcast. Table of Contents PART 1 Getting started with React Native Getting started with React Native Understanding React Building your first React Native app PART 2 Developing applications in React Native Introduction to styling Styling in depth Navigation Animations Using the Redux data architecture library PART 3 API reference Implementing cross-platform APIs Implementing iOS-specific components and APIs Implementing Android-specific components and APIs PART 4 Bringing it all together Building a Star Wars app using cross-platform components

This ultimate guide on React Hooks helps you modernize managing state and effects in React apps using Hooks. You will learn various types of Hooks and how it integrates with Context and Suspense APIs. You will create custom Hooks and learn to use Hooks with Redux and MobX. Lastly, you will learn to migrate your existing React applications to Hooks. LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today Build scalable, efficient, and highly available web apps using AWS About This Book Get an in-depth understanding of the serverless model Build a complete serverless web application end to end Learn how to use the Serverless Framework to improve your productivity Who This Book Is For If you're looking to learn more about scalable and cost-efficient architectures, this book is for you. Basic knowledge of Node.js skills or familiarity with cloud services is required. For other topics, we cover the basics. What You Will Learn Get a grasp of the pros and cons of going serverless and its use cases Discover how you can use the building blocks of AWS to your advantage Set up the environment and create a basic app with the Serverless Framework Host static files on S3 and CloudFront with HTTPS support Build a sample application with a frontend using React as an SPA Develop the Node.js backend to handle requests and connect to a SimpleDB database Secure your applications with authentication and authorization Implement the publish-subscribe pattern to handle notifications in a serverless application Create tests, define the workflow for deployment, and monitor your app In Detail This book will equip you with the knowledge needed to build your own serverless apps by showing you how to set up different services while making your application scalable, highly available, and efficient. We begin by giving you an idea of what it means to go serverless, exploring the pros and cons of the serverless model and its use cases. Next, you will be introduced to the AWS services that will be used throughout the book, how to estimate costs, and how to set up and use the Serverless Framework. From here, you will start to build an entire serverless project of an online store, beginning with a React SPA frontend hosted on AWS followed by a serverless backend with API Gateway and Lambda functions. You will also learn to access data from a SimpleDB database, secure the application with

authentication and authorization, and implement serverless notifications for browsers using AWS IoT. This book will describe how to monitor the performance, efficiency, and errors of your apps and conclude by teaching you how to test and deploy your applications. **Style and approach** This book takes a step-by-step approach on how to use the Serverless Framework and AWS services to build Serverless Applications. It will give you a hands-on feeling, allowing you to practice while reading. It provides a brief introduction of concepts while keeping the focus on the practical skills required to develop applications.

Managing the state of large-scale web applications is a highly challenging task with the need to align different components, backends, and web workers harmoniously. When it comes to Angular, you can use NgRx, which combines the simplicity of Redux with the reactive programming power of RxJS to build your application architecture, making your

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ASP.NET Core is a powerful framework for architecting a resilient backend for scalable web applications. When combined with the solid frontend development capabilities of React, it enables you to build robust full-stack web applications. This book shows .NET developers how to harness the full potential of React using ASP.NET Core as the backbone.

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