

Complex State Management With Redux Pro React

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
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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
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This book builds on the strengths of the previous volumes by the same author to provide the most detailed and nuanced account of the man, his politics and his profound influence on Russian politics, foreign policy and society. However, this is not a new edition of the earlier books but is an entirely new work. The focus now is on the dilemmas of power since 2008. There is a brief biographical sketch of Vladimir Putin and much analysis of his ideas and policies, but the book now focuses on the systemic contradictions that have created a blockage on modernisation and a stalemate in politics, Putin's role as Prime Minister since 2008 and his political successes and failures, analysis of the implications of Putin's third term as President and the 2011-12 electoral cycle and the ensuing crisis which led to thousands protesting on the streets This work assesses the achievements and failing of Putin's rule, but above all tries to make sense of contemporary developments. This is the definitive account of Putin and is essential reading for all scholars and students of Russian politics.

Your go-to guide to creating truly native iOS and Android mobile applications using React and JavaScript
About This Book* Build cross-platform best seller native mobile applications in JavaScript with React-Native framework* Learn about real world examples like Whatsapp, Instagram or Twitter.* Learn all steps in React Native application development workflow from prototyping to deployment* Get familiar with various mobile APIs covered in React Native framework and learn how to extend it further to non-supported APIs
Who This Book Is For
This

book is for JavaScript developers who want to learn how to create native mobile apps using React Native. What You Will Learn* Understand how React Native works under the hood and what makes it an ultimate choice for app development for lots of businesses.* Create real world native apps with complex animations and styles* Get familiar with important iOS and Android native APIs and access them using React Native* Learn authentication techniques and how to connect your app to a real data by using Firebase or your own server* Get familiar with lots of community packages considered as industry standard* Walk through the whole app development workflow by creating Twitter app clone from design to deployment.* Understand application release process to the Apple App Store and Google's Play Store

In Detail The emergence of React Native has made creating mobile apps in JavaScript easier for developers. This book introduces you to the React Native framework and the mobile apps development process. It starts with how React Native fits into the world of hybrid apps, and why it's a popular framework. You'll learn how React Native works under the hood--compiling JavaScript to Native code to bridge JavaScript and native apps. Also, you'll learn how to write React Native components and use the ReactJS way of structuring your app. Understand how to use the industry standard Redux architecture as well as MobX--a newly emerging approach for state management--making your apps more robust and scalable. The mobile native world can be intimidating, with lots of platform-specific APIs. In this book, you'll learn about the most important APIs with help of the real-world examples. You'll also learn about the community packages that can help speed up your development. The book explains how to use these packages with JavaScript code, include native modules in your application, and write the modules yourself. Throughout the book, you will see examples of WhatsApp, Instagram, and YouTube apps and learn how to recreate them. You'll also learn debugging and testing techniques, authentication, dealing with real data, and much more. At the end we will walk through design to production process of Twitter app clone and will explain application release process to App Store and Play Store

Style and approach This book gives you a solid foundation in building apps with React Native, from the basics to creating a fully functional Twitter clone! With industry best practices, plenty of code examples and complete projects to walk through. 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.

Performing Complex State Management with Redux

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

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.

Learn how to structure your application state, describe events with actions and perform deterministic state transitions with reducers. State management with NgRx follows the Redux pattern and is used by hundreds of companies to build maintainable Angular applications. In combination with TypeScript and RxJS it empowers you to write testable business logic and explicit side-effects for talking to servers through HTTP or WebSockets. With immutability as a

core concept you also gain performance benefits, eventually giving you the best of both worlds: lightning fast applications that are easy to maintain and grow. We'll be building an example application with the most recent versions of Angular & NgRx while getting to know all aspects of NgRx, how they fit together and which best practices you should apply. The code examples in the book are accompanied by a hosted repository where you can follow along each step of the way and jump into live demos in the browser.

Assemble the complete stack required to build a modern web app using React: MongoDB (a NoSQL database) and Express (a framework for web application servers), which runs on Node (JavaScript on the server side), complement React very nicely.

This book will also cover many other tools that go into building a complete web application: React Router, React-Bootstrap, Redux, Babel, and webpack. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. But it has its shortcomings such as lack of support for SEO friendly server-side rendering and being too prescriptive by being a framework. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React – hence the term MERN stack. **What You Will Learn** Discover the details of React, the React Way, and how to get the maximum out of this library See the basics of MongoDB, Express, and Node, enough to build a web app Work with other tools complementary to React, including React-Bootstrap and React Router Use the tools required to build JavaScript based SPAs Tie all the components together to build a complete web app. **Who This Book Is For** Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

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

Learn how to build a Reactive Application with Ngrx and Angular **KEY FEATURES** Learn how to create your own minimalistic Redux implementation. Get familiar with the working of NgRx Store. Learn how to handle asynchronous events without breaking

Redux paradigm using NgRx Effects. Learn how to manage router state using NgRx Router Store. Deal with a list of records using an entity state adapter pattern using NgRx Entity. DESCRIPTION This book will help you learn NgRx in and out. We will start by discussing the fundamental ideas that underpin the design for the centralized store and the need for state management in Angular. We will then learn about the Redux paradigm and the three rules it governs. Along the way, we will explore various Redux terminologies in terms of action, dispatcher, and reducer and will then create our minimalistic version of Redux. We will have a dedicated chapter that paves the way for an Angular application in which we will be integrating NgRx throughout the book. We will also work with Redux Devtools, which will be crucial to debugging NgRx. The book also focuses on the creation of the NgRx Store using @ngrx/schematics and hooking it up in the sample Angular application we built previously. Till here, the sample Angular application is purely relying on NgRx to read/write the application state except for the router state. Next, we will leverage the NgRx Router Store to bring the router state under the radar of NgRx as well so that the entire sample Angular application would be using a single source of truth in terms of NgRx for any application data. Towards the end, we will optimize the list of records using a proven entity state adapter pattern via NgRx Entity to interact with such records at the individual level to be efficient and performant. WHAT WILL YOU LEARN Learn the fundamentals of State Management. Learn how NgRx works under the hood and make your Angular applications truly reactive. Learn how to handle asynchronous events with NgRx Effects. Learn how to use record collection using NgRx Entity. Learn advanced Angular application using Angular/Material/NgRx/RxJS/TypeScript. Get acquainted with the knowledge to understand any other state management library. WHO THIS BOOK IS FOR Beginners, as well as Experienced Angular developers who want to write sustainable Angular applications over time, will benefit from this book. This book is for anyone interested in State Management with NgRx in Angular. TABLE OF CONTENTS 1 Redux Principles for ROCK solid application state 2 Setting up NgRx in Angular 3 NgRx Store 4 NgRx Effects 5 NgRx Router Store 6 NgRx Entity State

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 Reduxa- Create build beautiful applications using HTML, CSS, JavaScript, React and Reduxa- Learn how to debug and unit test your applications properly to build good end productsa- Follow best practices to write good quality code and build performant applicationsDESCRIPTION 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

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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.

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.

Courses which deal with environmental history have long lacked a comprehensive overview. I. G. Simmons has made a significant contribution with a book that looks at the long-term history of environment and humanity from 10,000 BC to AD 2000. This far-reaching text considers the global picture and recognises the contributions of many disciplines including the natural sciences, the social sciences, and increasingly, the humanities. As a starting point, this book takes the major phases of human technological evolution of the last 12,000 years and considers how these have affected the natural world. It then considers the response to conditions such as climate change, putting today's preoccupations into a long-term perspective. This is a book of history, not prophecy, and so makes no judgements on current anxieties.

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.

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.

Praise for the award winning First Edition: 'This handbook is organized to help teachers and students to cover the mainstream work in the field of organization studies. This is an excellent reference tool with which to study organizational theory and practice' - *International Review of Administrative Sciences* 'The editors have put together an impressive reference work, serious in intent and rigorous in implementation. As a publishing achievement, and a scholarly 'event' in the field, SAGE is to be congratulated. It is designed as a work of synthesis, to link past and present, general and specific' - *Journal of General Management* Praise for the New Edition: 'An excellent collection of papers giving a timely overview of the field' - Gareth Morgan 'In this substantially updated, revised and extended edition of the widely acclaimed Handbook, the high standard of the contributions is maintained. Close consideration is given to newly emergent, such as networks and complexity, as well as more established topics. Metaphors of conversation and discourse are engagingly invoked to make and explore new distinctions, directions and connections. It is a key reference volume for more advanced students of this rapidly developing field' - Hugh Willmott, Diageo Professor of Management Studies, Judge Business School, University of Cambridge 'Giving the authors of the Handbook of Organization Studies the opportunity to revise and update their earlier contributions makes this handbook unique. Comparing the revised chapters

to their originals offers the reader unparalleled insight into how knowledge develops in our discipline. New frameworks and deeper understandings, grounded in continuing scholarship, abound in this updated classic' - Mary Jo Hatch, C. Coleman McGehee Eminent Scholars Research Professor of Banking and Commerce McIntire School of Commerce, University of Virginia A decade after it first published to international acclaim, the seminal Handbook of Organization Studies has been updated to capture exciting new developments in the field. Providing a retrospective and prospective overview of organization studies, the Handbook continues to challenge and inspire readers with its synthesis of knowledge and literature. As ever, contributions have been selected to reflect the diversity of the field. New chapters cover areas such as organizational change; knowledge management; and organizational networks. Part One reflects on the relationship between theory, research and practice in organization studies. Part Two address a number of the most significant issues to affect organization studies such as leadership, diversity and globalization. Comprehensive and far-reaching, this important resource will set new standards for the understanding of organizational studies. It will be invaluable to researchers, teachers and advanced students alike.

React can be used as a base in the development of single-page applications and mobile applications. But to create complex applications it is required to use a composition of various libraries. Something for state management (e.g. Redux), something for routing etc.

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.

Leverage the full potential of the React Native framework to build and deploy your own native mobile applications for iOS and Android About This Book Work on native APIs and UI Elements using React Native Get the best of both worlds: the power of native approach and the fluidity of JavaScript Create increasingly complex real-world applications and dive deeper into React Native Who This Book Is For If you are keen on learning to use the revolutionary mobile development tool React Native to build native mobile applications, then this book is for you. Prior experience with JavaScript would be useful. What You Will Learn How to create mobile-performant iOS and Android apps using JavaScript and React The potential of each API and component, putting them into practice throughout the course of three projects The process of integrating the Facebook SDK to build an app that connects to third-party data Every step taken to implement Redux, a popular state management library, in your mobile apps The requirements for building and deploying your apps to market, with detailed instructions

on how to release and beta test apps on both the Apple App Store and Google Play In Detail React Native's ability to build performant mobile applications with JavaScript has resulted in its popularity amongst developers. Developers now have the luxury to create incredible mobile experiences that look and feel native to their platforms with the comfort of a well-known language and the popular React.js library. This book will show you how to build your own native mobile applications for the iOS and Android platforms while leveraging the finesse and simplicity of JavaScript and React. Throughout the book you will build three projects, each of increasing complexity. You will also link up with the third-party Facebook SDK, convert an app to support the Redux architecture, and learn the process involved in making your apps available for sale on the iOS App Store and Google Play. At the end of this book, you will have learned and implemented a wide breadth of core APIs and components found in the React Native framework that are necessary in creating great mobile experiences. Style and approach Start building applications immediately using featured examples through an easy-to-follow approach. The book is based on three concrete projects with increasing levels of difficulty. Each chapter will introduce you to new and practical concepts and techniques, with the intent that you will be able to apply them in your own projects later.

Use digital experience platforms (DXP) to improve your development productivity and release timelines. Leverage the pre-integrated feature sets of DXPs in your organization's digital transformation journey to quickly develop a personalized, secure, and robust enterprise platform. In this book the authors examine various features of DXPs and provide rich insights into building each layer in a digital platform. Proven best practices are presented with examples for designing and building layers. A special focus is provided on security and quality attributes needed for business-critical enterprise applications. The authors cover modern and emerging digital trends such as Blockchain, IoT, containers, chatbots, artificial intelligence, and more. The book is divided into five parts related to requirements/design, development, security, infrastructure, and case study. The authors employ proven real-world methods, best practices, and security and integration techniques derived from their rich experience. An elaborate digital transformation case study for a banking application is included.

What You'll Learn Develop a digital experience platform from end to end Understand best practices and proven methods for designing overall architecture, user interface and integration components, security, and infrastructure Study real-world cases, including an elaborate digital transformation building an enterprise platform for a banking application Know the open source tools and technology frameworks that can be used to build DXPs Who This Book Is For Web developers, full stack developers, digital enthusiasts, digital project managers, and architects

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

This book presents the latest research findings, as well as innovative theoretical and practical research results, methods and development techniques related to P2P, grid, cloud and Internet computing. It also reveals the synergies among such large scale computing paradigms. P2P, Grid, Cloud and Internet computing technologies have rapidly become established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources on a large scale. Grid computing originated as a paradigm for high-performance computing, offering an alternative to expensive supercomputers through different forms of large-scale distributed computing. P2P computing emerged as a new paradigm following on from client-server and web-based computing and has proved useful in the development of social networking, B2B (Business to Business), B2C (Business to Consumer), B2G (Business to Government), and B2E (Business to Employee). Cloud computing has been described as a “computing paradigm where the boundaries of computing are determined by economic rationale rather than technical limits”. Cloud computing has fast become the computing paradigm with applicability and adoption in all domains and providing utility computing at large scale. Lastly, Internet computing is the basis of any large-scale distributed computing paradigm; it has very quickly developed into a vast and flourishing field with enormous impact on today’s information societies and serving as a universal platform comprising a large variety of computing forms such as grid, P2P, cloud and mobile computing.

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.

Discover the power of Rematch and its plugins by building a real-world application from scratch Key Features: Get to grips with the capabilities of Rematch quickly as you build applications Learn to use Rematch and its plugins to simplify everyday tasks Take total control of the application state and manage its scalability using Rematch Book Description: Rematch is Redux best practices without the boilerplate. This book is an easy-to-read guide for anyone who wants to get started with Redux, and for those who are already using it and want to improve their codebase. Complete with hands-on tutorials, projects, and self-assessment questions, this easy-to-follow guide will take you from the simplest through to the most complex layers of Rematch. You'll learn how to migrate from Redux, and write plugins to set up a fully tested store by integrating it with vanilla JavaScript, React, and React Native. You'll then build a real-world application from scratch with the power of Rematch and its plugins. As you advance, you'll see how plugins extend Rematch functionalities, understanding how they work and help to create a maintainable project. Finally, you'll analyze the future of Rematch and how the frontend ecosystem is becoming easier to use and maintain with alternatives to Redux. By the end of this book, you'll be able to have total control of the application state and use Rematch to manage its scalability with simplicity. What You Will Learn: Understand the principal concepts of Flux and Redux Find out what the main problems are that Rematch solves Become familiar with the Rematch ecosystem Develop an application using Rematch and React together Write unit and integration tests to get 100% test coverage of your programs with Rematch Create a React Native app with Rematch and Expo Persist data with redux-persist and Rematch Build a Rematch plugin from scratch Who this book is for: This book is for React and Redux users looking for better alternatives for Redux. Familiarity with JavaScript, React, and Redux will help you make the most of this book.

Develop real world Android and iOS applications with the power of React native. About This Book Build quirky and fun projects from scratch and become efficient with React Native Learn to build professional Android and iOS applications with your JavaScript skills Use Isomorphic principles to build mobile apps that offer a native user experience Who This Book Is For This book is for developers who

want to use their JavaScript knowledge for mobile development. Prior knowledge of React will be beneficial. What You Will Learn Structure React Native projects to ease maintenance and extensibility Optimize a project to speed up development Make a React Native project production-ready 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 In Detail Considering the success of the React framework, Facebook recently introduced a new mobile development framework called React Native. With React Native's game-changing approach to hybrid mobile development, you can build native mobile applications that are much more powerful, interactive, and faster by using JavaScript This project-based guide takes you through eight projects to help you gain a sound understanding of the framework and helps you build mobile apps with native user experience. Starting with a simple standalone groceries list 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 covers the entire feature set of React Native, starting from the simplest (layout or navigation libraries) to the most advanced (integration with native code) features. By the end of this book, you'll be able to build professional Android and iOS applications using React Native. Style and approach This project-based guide consists of 8 projects. Each project is a standalone project that covers the core techniques and concepts in each project.

Develop complex and maintainable web applications using Redux About This Video Combine the power of Redux with popular JavaScript libraries to make consistent web applications Explore various advanced techniques with this recipe-based guide to find a solution to numerous common problems you might come across while using Redux Learn to structure and maintain your web application with predictable state containers In Detail State management is absolutely critical in providing users with a well-crafted experience with minimal bugs. Redux provides a solid, stable, and mature solution to managing state in your React application. In this course, you'll explore advanced state management techniques, router integration, and other common problems that you might encounter while developing your applications. The recipe-based approach allows you to quickly identify your problem and find a solution to it. This course also consists of various recipes that will help you to understand different test-case scenarios created in Redux. Once you are well-acquainted with Redux, the course will explicitly show you how they work in developing a consistent application with React and Angular. The code bundle for this video course is available at <https://github.com/PacktPublishing/-Redux-Recipes> Downloading the example code for this course: You can download the example code files for all Packt video courses you have purchased from your account at

<http://www.PacktPub.com> . If you purchased this course elsewhere, you can visit <http://www.PacktPub.com/support> and register to have the files e-mailed directly to you.

As part of the best-selling Pocket Primer series, this book provides an overview of the major aspects and the source code to use the latest versions of Angular 4. It has coverage of the fundamental aspects of Angular that are illustrated via numerous code samples. This Pocket Primer is primarily for self-directed learners who want to learn Angular 4 programming, and it serves as a starting point for deeper exploration of its numerous applications. A companion disc (also available for downloading from the publisher) with source code and color images is included. FEATURES -Contains latest material on Angular 4, graphics/animation, mobile apps, -Includes companion files with all of the source code and images from the book -Provides coverage of the fundamental aspects of Angular4 that are illustrated via code samples BRIEF TABLE OF CONTENTS 1. A Quick Introduction to Angular. 2. UI Controls and User Input. 3. Graphics and Animation. 4. HTTP Requests and Routing. 5. Forms, Pipes, and Services. 6. Angular and Express. 7. Flux, Redux, GraphQL, Apollo, and Relay. 8. Angular and Mobile Apps. 9. Functional Reactive Programming. 10. Miscellaneous Topics. Index. ON THE COMPANION FILES! -Hundreds of source code samples -All images from the text (including 4-color) eBook Customers: Companion files are available for downloading with order number/proof of purchase by writing to the publisher at info@merclearning.com.

Tackling an app development project on multiple platforms is no simple task. When time is in short supply and customers need access from the tap of a home screen, React Native can provide a lean development team with the tools needed to deliver a multi-platform native experience without juggling multiple programming languages and shifting code bases. React Native is an emerging technology and best practices are only beginning to bubble up. Fortunately, a growing user community—from tech giants such as Facebook, Yahoo, and Airbnb to the independent developers—is hard at work codifying patterns and best practices for how to use React Native. This cookbook is another milestone on that journey. Aimed at people with some JavaScript and web development experience, the first part of this cookbook covers some simple tips for getting started with React Native. Part 2 will cover some emerging patterns that are commonly found in most native applications.

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

Build modern, scalable, and cloud-ready single-page applications using ASP.NET Core, React, TypeScript, and Azure Key Features Explore the full potential and latest features of .NET Core 3.0, TypeScript 3, and React Learn how to manage data, application design, and packaging, and secure your web apps Discover best practices for using React and TypeScript to build a scalable frontend that interacts with REST APIs Book Description Microsoft's ASP.NET

Core is a robust and high-performing cross-platform web API framework, and Facebook's React uses declarative JavaScript to drive a rich, interactive user experience on the client-side web. Together, they can be used to build full stack apps with enhanced security and scalability at each layer. This book will start by taking you through React and TypeScript components to build an intuitive single-page application. You'll understand how to design scalable REST APIs that can integrate with a React-based frontend. 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. The book shows how you can use TypeScript along with React to make the frontend robust and maintainable. You'll then cover important .NET Core features such as API controllers, attribute routing, and model binding to help you build a sturdy backend. Additionally, you'll explore API security with ASP.NET Core identity and authorization policies, and write reliable unit tests using both .NET Core and React before you deploy your app to the Azure cloud. By the end of the book, you'll have gained all the knowledge you need to enhance your C# and JavaScript skills and build full stack, production-ready applications with ASP.NET Core and React. What you will learn

- Build RESTful APIs with .NET Core using API controllers
- Create strongly typed, interactive, and function-based React components using Hooks
- Build forms efficiently using reusable React components
- Perform client-side state management with Redux and the React Context API
- Secure REST APIs with ASP.NET identity and authorization policies
- Run a range of automated tests on the frontend and backend
- Implement continuous integration (CI) and continuous delivery (CD) processes into Azure using Azure DevOps

Who this book is for If you're a web developer looking to build solid full-stack web applications with .NET Core and React, this book is for you. Although this book does not assume any knowledge of React, you're expected to have a basic understanding of .NET Core.

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.

This book helps you use the open-source Flutter framework for building native mobile apps using Dart. You'll learn about Dart programming and add functionalities to your Android and iOS apps for truly native performance. The book also covers recipes for solving almost any issue that you may face while developing multi-platform applications.

Build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this updated edition, author Ethan Brown teaches you Express fundamentals by walking you through the development of an example application. This hands-on guide covers everything from server-side rendering to API development suitable for use in single-page apps (SPAs).

Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. Frontend and backend engineers familiar with JavaScript will also learn best practices for building multipage and hybrid web apps with Express. Pick up this book and discover new ways to look at web development. Create a templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing Persist data in document databases with MongoDB and relational databases with PostgreSQL Make your resources available to other programs with APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and more Implement a plan for launching and maintaining your app Learn critical debugging skills

This, the first book in the series, explores cities from the earliest earth built settlements to the dawn of the industrial age exploring ancient, Medieval, early

modern and renaissance cities. Among the cities examined are Uruk, Babylon, Thebes, Athens, Rome, Constantinople, Baghdad, Siena, Florence, Antwerp, London, Paris, Amsterdam, Mexico City, Timbuktu, Great Zimbabwe, Hangzhou, Beijing and Hankou. Among the technologies discussed are: irrigation, water transport, urban public transport, aqueducts, building materials such as brick and Roman concrete, weaponry and fortifications, street lighting and public clocks. Anthropological archaeology and other disciplines concerned with the formation of early complex societies are undergoing a theoretical shift stemming from the realization that the social evolution of complex societies was more varied and complex than imagined. Given the need for new directions in theory, the book proposes that anthropologists look to political science, especially the rational choice theory of collective action. Collective action theorists propose that state formation results from the strategic behavior of rational and self-interested actors who make up the polity, including a political elite and those outside the official structure of the state. The theory proposes that the form taken by a state will depend on the "bargaining power", of rulers and taxpayers. Where taxpayers have more resources with which to bargain, it is predicted that rulers will concede benefits to taxpayers and will agree to restrictions on their power. The authors subject collective action theory to a methodologically rigorous evaluation using systematic cross-cultural analysis based on a world-wide sample of societies. The results presented here indicate strong support for most elements of the theory, but some results, in particular those pertaining to the control of ruler behavior, suggest the possibility that there are contexts in which collective action may play out in ways not anticipated by the theory. While this type of theoretical modeling is commonly seen in political science research, this volume is unique in its approach from an anthropological and archaeological viewpoint. The focus of this book is on industrial infrastructures of production and circulation, from power distribution and roads to dry ports and airports. It looks at how these infrastructures underpin visions of progress and mediate relations between the state and capitalist firms in industrializing districts in Punjab, Pakistan.

5+ Hours of Video Instruction Web applications of today are becoming increasingly more complex. Our apps commonly need to request data from various sources and handle rich user interactions, which can become difficult to keep track of as our apps scale. Luckily, if you are using the React framework, there are many ways to solve these problems. React has emerged as the industry standard for JavaScript frameworks. With more than 3 million weekly downloads from the NPM package manager and heavy usage by leading companies such as Google, Microsoft, Netflix, Twitter and so many more-React is a leading framework. Learn how to unlock the power of React with the Redux library to provide creative solutions and highly flexible web components. In larger applications, many developers and teams lean on Flux-style architectures, such as those implemented by the Redux library, which have proven to be highly

scalable and easily testable. Instructor Dave Lunny covers how you can develop successful web applications with these powerful technologies. Description In this 5 hour LiveLesson, Dave Lunny provides a deep dive into the concepts behind Flux-based architectures like Redux, showing how to use unidirectional data patterns to help simplify your web applications. Lunny uses a mix of screen casting, slides, and personal narrative to cover modern development patterns, demonstrating how to solve state management issues that can arise-such as higher-order components, render props, and context. Skill Level Beginning-Intermediate What You Will Learn How to simplify the way data flows through applications A full understanding of the concepts behind Flux-style architecture and how to think in Redux Exciting concepts to help make components more flexible A keen understanding of the overarching concept behind Redux and how the library fits into a modern front-end JavaScript stack How to use Redux with React Advanced React patterns, such as higher-order components, render props, and the Context API Who Should Take This Course Web Developers Javascript developers Course Requirements Pre-requisites: A working knowledge of modern JavaScript (ES6+), as well as some basic CSS/HTML knowledge. Understanding of common web development best practices, specifically the benefits of building reusable UI components. Intermediate knowledge of the React JavaScript framework. About Pearson Video Training Pearson publishes expert-led video tutorials covering a wide selection of technolo...

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.

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