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React Explained Zac Gordon 2019-03-05 React Explained is a fun and enjoyable introduction to React, which is the Javascript framework of choice for WordPress, Drupal, Magento, and thousands of developers. Key Features Up-to-Date: Constantly updated, the material in React Explained is always current. Clear instruction: You will follow plain English, clear visuals, and enjoyable step-by-step instructions. Hands-on learning: You will master React by building a complete React application. What You'll Learn In React Explained, readers will dig deep into how React works and will learn how to build applications with it. While the focus is on building for the frontend on the web, many of the skills you will learn will also apply to writing React on the server side, for native applications and even for Virtual Reality environments. Table of Contents The Javascript You Should Know for React Helpful Developer Tools for React A High Level Overview of React React Elements and Components Explained 5 Exercises in Writing React With Elements and Components JSX Explained 5 Exercises in Writing React With JSX Create React App Explained 5 Exercises With Create React App Props in React Explained 5 Exercises in Working With Props State in React Explained 5 Exercises in Working With State The Component Lifecycle Explained 5 Exercises With the Component Lifecycle Project Introduction Step 1 - Listing Content from State Step 2 - Routing and Single Content Views Step 3 - Adding a Content Form Step 4 - Adding Flash Messages Step 5 - Updating Content Step 6 - Deleting Content Step 7 - Maintaining Persistent State With Local Storage Step 8 - Authenticating With a Firebase Database Step 9 - CRUD and Live Syncing With Firebase Step 10 - Deploying the Project Step 11 - Refactoring Your Code About the Author Zac Gordon is a professional educator, who currently focuses on JavaScript development with and alongside WordPress at javascriptforwp.com. Zac has years of experience teaching at high schools, colleges, bootcamps and online learning sites like Treehouse, Udemy and Frontend Masters. In addition to teaching, Zac also runs Web Hosting for Students, one of the world's largest hosting companies dedicated to students and teachers. You can also catch his free Office Yoga sessions on OfficeYoga.tv.

Building React Apps with Server-Side Rendering Mohit Thakkar 2020-04-02 Leverage the benefits of both client-side and server-side rendering to get the most out of your React applications. By the end of this book you will be able to build and deploy React applications using the Next.js framework to fully render server-side HTML on every Web page. You'll begin by reviewing JavaScript fundamentals and how they work with the core principles of React. You'll then move on to Next.js, the React framework for server-rendered applications. Using this framework, you will create a fast and secure solutional React application that renders content on the server-side, protects sensitive information, and optimizes response times. Before deploying the application using Docker containers, you'll create automated unit tests to verify that every component is appropriately doing its job Building React Apps with Server-Side Rendering also covers other fun and interesting topics such as Bootstrap 4, JSX (JavaScript XML), adding styling to your React applications, and much more. By the end of this book, you will be able to build and deploy React applications that fully render server-side HTML on every page. In the end you'll have a client-side rendered React application that integrates server-side rendering into it using Next.js framework. What You'll Learn Examine fundamental concepts of JavaScript (ES 2015) Create client-side apps using JavaScript frameworks React and Redux Add server-side rendering to React apps using the NextJS Framework Who This Book Is For Web developers who have prior experience in working with JavaScript, HTML and

CSS, who wish to step up a level and create better web applications using modern JavaScript frameworks like React, Reduct & Next.

Beginning React (incl. Redux and React Hooks) Greg Lim 2020-09 Developed by Facebook, React is one of the leading frameworks to build efficient web user interfaces. You use small manageable components to build large-scale, data-driven websites without page reloads. No more wasting time hunting for DOM nodes! In this book, we take you on a fun, hands-on and pragmatic journey to master React from a web development point of view. You'll start building React apps within minutes. Every section is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have what it takes to develop a real-life app. About the Reader This book is for developers with basic familiarity with HTML, CSS, Javascript and object-oriented programming. No React experience needed. About the Author Greg Lim is a technologist and author of several programming books. Greg has many years in teaching programming in tertiary institutions and he places special emphasis on learning by doing. Table of Contents Introduction Creating and Using Components Bindings, Props, State and Events Working with Components Conditional Rendering Building Controlled Forms Getting Data From RESTful APIs with Axios React Routing C.R.U.D. with Firebase Introduction to Redux React with Redux Introduction to React Hooks

React Material-UI Cookbook Adam Boduch 2019-03-30 Develop modern-day applications by implementing Material Design principles in React using Material-UI Key Features Use React components to build intuitive UI elements Explore a variety of styles and themes in the Material-UI framework using React components Learn practical React recipes and best practices for building modern web applications Book Description Material-UI is a component library for rendering UI elements, using modern best practices from React and Material Design. This book will show you how you can create impressive and captivating modern-day web apps by implementing Material Design considerations. The book is designed to help you use a variety of Material-UI components to enhance UI functionality, along with guiding you through React best practices, and using state, context, and other new React 16.8 features. You will start with layout and navigation, exploring the Grid component and understanding how it's used to build layouts for your Material-UI apps. Using Material-UI components, you'll then explore the technique of effectively presenting information. In later sections, you will also learn about the different components for user interactions such as the text input component and buttons. Finally, the book will get you up to speed with customizing the look and feel of your app, right from creating a Material-UI theme through to styling icons and text. By the end of this book, you will have developed the skills you need to improve the look and feel of your applications using Material-UI components. What you will learn Build the overall structure and navigation for your Material-UI app Present simple and complex information in a variety of ways Develop interactive and intuitive controls Group content into sections using tabs and expansion panels Create a general page layout with Material-UI grids Use lists for complex data, and cards for detailed information Who this book is for This book is for React developers who want to implement Material Design principles in their applications. You will also find this book helpful if you are a developer who wants to build a UI using React components without having to build your own UX framework.

Full-Stack React, TypeScript, and Node David Choi 2020-12-18 Discover the current landscape of full-stack development and how to leverage modern web technologies for building production-ready React.js applications to deploy on AWS Key Features Understand the architecture of React and single-page applications Build a modern Web API for your SPA using Node.js, Express, and GraphQL Gain a clear and practical understanding of how to build a complete full-stack application Book Description React sets the standard for building high-performance client-side web apps. Node.js is a scalable application server that is used in thousands of websites, while GraphQL is becoming the standard way for large websites to provide data and services to their users. Together, these technologies, when reinforced with the capabilities of TypeScript, provide a cutting-edge stack for complete web application development. This book takes a hands-on approach to implementing modern web technologies and the associated methodologies for building full-stack apps. You'll begin by gaining a strong understanding of TypeScript and how to use it to build high-quality web apps. The chapters that follow delve into client-side development with React using the new Hooks API and Redux. Next, you'll get to grips with server-side development with Express, including authentication with Redis-based sessions and accessing databases with TypeORM. The book will then show you how to use Apollo GraphQL to build web services for your full-stack app. Later, you'll learn how to build GraphQL schemas and integrate them with React using Hooks. Finally, you'll focus on how to deploy your application onto an NGINX server using the AWS cloud. By the end of this book, you'll be able to build and deploy complete high-performance web applications using React, Node, and GraphQL. What you will learn Discover TypeScript's most important features and how they can be used to improve code quality and maintainability Understand what React Hooks are and how to build React apps using them Implement state management for your React app using Redux Set up an Express project with TypeScript and GraphQL from scratch Build a fully functional online forum app using React and GraphQL Add authentication to your web app using Redis Save and retrieve data from a Postgres database using TypeORM Configure NGINX on the AWS cloud to deploy and serve your apps Who this book is for The book is for web developers who want to go beyond front-end web development and enter the world of full-stack web development by learning about modern web

technologies and how they come together. A good understanding of JavaScript programming is required before getting started with this web development book.

GraphQL in Action Samer Buna 2021-03-09 GraphQL in Action gives you the tools to get comfortable with the GraphQL language, build and optimize a data API service, and use it in a front-end client application. Summary Reduce bandwidth demands on your APIs by getting only the results you need—all in a single request! The GraphQL query language simplifies interactions with web servers, enabling smarter API queries that can hugely improve the efficiency of data requests. In GraphQL in Action, you'll learn how to bring those benefits to your own APIs, giving your clients the power to ask for exactly what they need from your server, no more, no less. Practical and example-driven, this book teaches everything you need to get started with GraphQL—from design principles and syntax right through to performance optimization. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology GraphQL APIs are fast, efficient, and easy to maintain. They reduce app latency and server cost while boosting developer productivity. This powerful query layer offers precise control over API requests and returns, making apps faster and less prone to error. About the book GraphQL in Action gives you the tools to get comfortable with the GraphQL language, build and optimize a data API service, and use it in a front-end client application. By working through set up, security, and error handling you'll learn to create a complete GraphQL server. You'll also unlock easy ways to incorporate GraphQL into your existing codebase so you can build simple, scalable data APIs. What's inside Define a GraphQL schema for relational and document databases Implement GraphQL types using both the schema language and object constructor methods Optimize GraphQL resolvers with data caching and batching Design GraphQL fragments that match UI components' data requirements Consume GraphQL API queries, mutations, and subscriptions with and without a GraphQL client library About the reader For web developers familiar with client-server applications. About the author Samer Buna has over 20 years of experience in software development including front-ends, back-ends, API design, and scalability. Table of Contents PART 1- EXPLORING GRAPHQL 1 Introduction to GraphQL 2 Exploring GraphQL APIs 3 Customizing and organizing GraphQL operations PART 2 - BUILDING GRAPHQL APIs 4 Designing a GraphQL schema 5 Implementing schema resolvers 6 Working with database models and relations 7 Optimizing data fetching 8 Implementing mutations PART 3 - USING GRAPHQL APIs 9 Using GraphQL APIs without a client library 10 Using GraphQL APIs with Apollo client

Fullstack React Accomazzo Anthony 2017-03 LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today React Quickly Azat Mardan 2017-08-20 Summary React Quickly is for anyone who wants to learn React.js fast. This hands-on book teaches you the concepts you need with lots of examples, tutorials, and a large main project that gets built throughout the book. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Successful user interfaces need to be visually interesting, fast, and flowing. The React.js JavaScript library supercharges view-heavy web applications by improving data flow between UI components. React sites update visual elements efficiently and smoothly, minimizing page reloads. React is developer friendly, with a strong ecosystem to support the dev process along the full application stack. And because it's all JavaScript, React is instantly familiar. About the Book React Quickly is the tutorial for web developers who want to get started fast with React.js. Following carefully chosen and clearly explained examples, you'll learn React development using your existing JavaScript and web dev skills. You'll explore a host of different projects as you learn about web components, forms, and data. What's Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building web applications with JavaScript. About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and teaching JavaScript and Node, and author of several books on JavaScript, Node, React, and Express. Table of Contents PART 1 - REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components Project: Menu component Project: Tooltip component Project: Timer component PART 2 - REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project: Building a bookstore with React Router Project: Checking passwords with Jest Project: Implementing autocomplete with Jest, Express, and MongoDB APPENDIXES Appendix A - Installing applications used in this book Appendix B - React cheatsheet Appendix C - Express.js cheatsheet Appendix D - MongoDB and Mongoose cheatsheet Appendix E - ES6 for success

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

and reduce the time you spend debugging applications Explore React's component lifecycle and use it to load data and improve UI performance Use a routing solution for browser history, bookmarks, and other features of single-page applications Learn how to structure React applications with servers in mind

React Native in Action Nader Dabit 2019-03-07 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

React Native Cookbook Dan Ward 2019-01-31 Improve your React Native mobile development skills and transition from web to mobile development with this solution-packed guide Key Features Learn strategies and techniques to face React Native mobile development challenges head-on Explore ways to use iOS and Android for React Native development to maximize code reuse and cohesion Build engaging user experiences with React Native Book Description If you are a developer looking to create mobile applications with maximized code reusability and minimized cost, React Native is what you need. With this practical guide, you'll be able to build attractive UIs, tackle common problems in mobile development, and achieve improved performance in mobile environments. This book starts by covering the common techniques for React Native customization and helps you set up your development platforms. Over the course of the book, you'll work through a wide variety of recipes that help you create, style, and animate your apps with built-in React Native and custom third-party components. You'll also develop real-world browser-based authentication, build a fully functional audio player, and integrate Google Maps in your apps. This book will help you explore different strategies for working with data, including leveraging the popular Redux library and optimizing your app's dataflow. You'll also learn how to write native device functionality for new and existing React Native projects and how app deployment works. By the end of this book, you'll be equipped with tips and tricks to write efficient code and have the skills to build full iOS and Android applications using React Native. What you will learn Build UI features and components using React Native Create advanced animations for UI components Develop universal apps that run on phones and tablets Leverage Redux to manage application flow and data Expose both custom native UI components and application logic to React Native Employ open source third-party plugins to create React Native apps Who this book is for If you're a JavaScript developer looking for a practical guide for developing feature-rich mobile apps using React Native, this book is for you. Though not necessary, some experience of working with React will help you understand the React Native concepts covered in this book easily. While React Native development can be done on a Windows machine, certain aspects, such as running your apps on iOS devices and in the iOS simulator, or editing native code with Xcode, can only be done with a Mac.

Practical React Native Frank Zammetti 2019-03-10 Discover how to use React Native in the real world, from scratch. This book shows you what React Native has to offer, where it came from, and where it's going. You'll begin with a solid foundation of practical knowledge, and then build on it immediately by constructing three different apps. You'll learn how to use each feature of React by working on two full projects and one full game. These aren't just simple React Native Hello World examples (although you'll naturally start there!) but are apps that you can, if you so choose, install on your mobile devices and use for real. Throughout this book, you'll gain real-world familiarity with React Native as well as supporting components from Expo, NativeBase, React Navigation and the Redux and Lodash libraries. You'll also build server-side code for a mobile React Native app to talk to using the popular Node.js and Socket.io library, providing you a holistic view of things even beyond React Native. And, you'll see many helpful tips, tricks and gotchas to watch out for along the way! Practical React Native offers practical exercises that will give you a solid grasp of building apps with React Native, allowing you to springboard into creating more advanced apps on your own. Creating a game with React Native will allow you

to see a whole other perspective on what React Native can do. What You'll Learn Master the basics of React Native Create a logically structured project Review interface elements, such as widgets, controls, and extensions Build layouts Work with Expo, an open source toolchain Who This book Is For The primary audience is mobile developers and anyone looking to build for multiple mobile platforms and trying to do so with a codebase that is largely the same across all. Readers will need a decent foundation, but not necessarily be experts in, HTML, CSS, and JavaScript, but I'll assume little beyond that.

Mastering React Native Eric Masiello 2017-01-11 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.

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

MERN Projects for Beginners Nabendu Biswas 2021-08-22 Learn how to use the MERN stack (MongoDB, Express.js, React, and Node) to build five fully functioning web apps for dating, video sharing, messaging, and social media. While creating these web apps, you'll learn key development concepts including how to use React hooks, Redux, MongoDB, Express, Heroku, Firebase, Material UI, and Google authentication. By expanding your portfolio with the projects you create, you will be well equipped as front-end developer. You will first create a dating site with a swiping feature and chat functionality. You will then build a video sharing app with videos displaying vertically. Next, you will learn to build an awesome messaging web app. Users will be able to chat in real time, as well as log in to their account using Google authentication. You will also create a photo sharing app and social media web apps with the ability to post images with captions and log in using email and password authentication. Most MERN tutorials out there today cover basic web apps but it is capable of so much more – learn how to use this stack to its full potential and build projects that can be converted into full scaled start-ups with additional features. What You'll Learn Work with React hooks and React router Examine powerful MongoDB services for easy to use and setup Create routes using Node and host on Heroku Study different authentication techniques Deploy all sites using simple Firebase hosting Use the powerful React ecosystem to add functionalities to your apps Who This book Is For Those who have just started their career in web development and have basic knowledge of the core web technologies: HTML, CSS, and JavaScript. Those with basic React development and feel ready to explore its capabilities further. Mastering React Test-Driven Development Daniel Irvine 2019-05-03 This book is comprehensive walk through of Test-Driven Development (TDD) for React. It takes a

first-principles approach to teach the TDD process using vanilla Jest. Readers build their own test library as they refactor out repeated code in tandem with building a real-world application. It also covers acceptance testing using Cucumber and ...

Redux Made Easy with Rematch Sergio Moreno 2021-08-27 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.

Modern Full-Stack Development Frank Zammetti 2020-03-29 Explore what React, Node, TypeScript, Webpack, and Docker have to offer individually, and how they all fit together in modern app development. React is one of the most popular web development tools available today, and Node.js is extremely popular for server-side development. The fact that both utilize JavaScript is a big selling point, but as developers use the language more, they begin to recognize the shortcomings, and that's where TypeScript comes in and why it's gaining in popularity quickly. Add Webpack and Docker to the mix, and you've got a potent full development stack on which to build applications. You'll begin by building a solid foundation of knowledge and quickly expand it by constructing two different real-world apps. These aren't just simple, contrived examples but real apps that you can choose to install on your servers and use for real. By the end, you will have a solid grasp of building apps with React, Node.js, and TypeScript and a good grasp on how Webpack can be used to optimize and organize your code for deployment. You'll also understand how Docker can be used to run the apps you build in a clear and well-defined way, all of which will be able to springboard you into creating more advanced apps on your own. What You'll Learn Get a project started and logically structure it Construct a user interface with React and Material-UI Use WebSockets for real-time communication between client and server Build a REST API with Node and Express as another approach to client-server communication Package the app with Webpack for optimized delivery Take a completed app and wrap it up with Docker for easy distribution Review a host of other ancillary topics including NPM, Semantic versioning, Babel, NoSQL, and more Who This Book Is For Web developers with basic knowledge of HTML, JavaScript, CSS, and CLI tools who are interested in and in all aspects of application development, and using TypeScript instead of straight JavaScript.

React Native Cookbook Jonathan Lebensold 2018-02-13 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.

Test-Driven Development with React Juntao Qiu 2021-09-27 Learn to use accelerated test-driven development (TDD) to build a React application from scratch. This book explains how your React components will be integrated, and how to refactor code to make it more concise and flexible. With TDD you can develop a robust test suite to catch bugs, and develop modular, flexible code. Applying your understanding of how HTML, CSS, and JavaScript work in the browser you'll build a web application called Bookish using TDD and mainstream React stack technologies such as React, React-router, and Redux. Using higher code quality you'll be able to write executable documentation using Cucumber. This is just one of many essentials in maintaining a practical TDD workflow in your daily workload. Test-Driven Development with React highlights best practices and design patterns that will enable you to write more maintainable and reusable React components. What You'll Learn Manage your application's state using Redux Employ professional techniques for backend services Use Cypress as an end-to-end testing framework Utilize React-testing-library for unit and integration tests Who This Book Is For Ideal for web application developers who wants to learn how to write high quality code using Test-Driven Development.

Learning React Alex Banks 2020-06-12 If you want to learn how to build efficient React applications, this is your book. Ideal for web developers and software engineers who understand how JavaScript, CSS, and HTML work in the browser, this updated edition provides best practices and patterns for writing modern React code. No prior knowledge of React or functional JavaScript is necessary. With their learning road map, authors Alex Banks and Eve Porcello show you how to create UIs that can deftly display changes without page reloads on large-scale, data-driven websites. You'll also discover how to work with functional programming and the latest ECMAScript features. Once you learn how to build React components with this hands-on guide, you'll understand just how useful React can be in your organization. Understand key functional programming concepts with 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

Mastering Rust Sufyan bin Uzayr 2022-11-11 Mastering Rust helps the reader master the powerful Rust programming language for creating stable and versatile applications and projects. Rust is a dependable and robust programming language that was created with today's needs in mind, which is something that several other scripting languages lack. Rust was developed to provide high functions comparable to those of C and C++, and with a focus on code integrity, which is, arguably, lacking in languages such as C. Rust is a dynamically typed language that emphasizes performance and reliability, particularly in parallelism and storage organization. Rust allows you to store data on the tower or the shedload, and it recognizes the importance of performance optimization. It permits even more effective memory usage as well as faster memory management than most other programming languages in its league. Make no mistake about it – Rust is a programming language with a strong learning curve, and is considered complicated by even the most experienced of developers. The rewards for learning Rust are aplenty, but the learning process itself requires a good deal of determination and hard work. Nonetheless, Rust aims to provide a secure, concurrent, and practical systems language in ways that other programming languages do not, and this is primarily why Rust is often the preferred choice for building complex and highly stable apps. Rust boasts of advantages over many other programming languages in terms of expressiveness, speed, sound design, and memory storage. Though the language is new and constantly changing with time, there is an excellent opportunity in this field for future employment. That said, to learn the reliable language that is Rust, you need to have an equally reliable companion guide in your hands, and this is where Mastering Rust comes in. With Mastering Rust, learning Rust programming language becomes a charm, and will undoubtedly help readers advance their careers. The Mastering Computer Science series is edited by Sufyan bin Uzayr, a writer and educator with more than a decade of experience in the computing field.

Learn React Hooks Daniel Bugl 2019-10-18 Create large-scale web applications with code that is extensible and easy to understand using React Hooks Key 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.

Android for Java Programmers Abdul-Rahman Mawlood-Yunis 2022-06-24 This textbook is about learning Android and developing native apps using the Java programming language. It follows Java and Object-Oriented (OO) programmers' experiences and expectations and thus enables them to easily map Android concepts to familiar ones. Each chapter of the book is dedicated to one or more Android development topics and has one or more illustrating apps. The topics covered include activities and transitions between activities, Android user interfaces and widgets, activity layouts, Android debugging and testing, fragments, shared preferences, SQLite and firebase databases, XML and JSON processing, the content provider, services, message broadcasting, async task and threading, the media player, sensors, Android Google maps, etc. The book is intended for introductory or advanced Android courses to be taught in one or two semesters at universities and colleges. It uses code samples and exercises extensively to explain and clarify Android coding and concepts. It is written for students and programmers who have no prior Android programming knowledge as well as those who already have some Android programming skills and are excited to study more advanced concepts or acquire a deeper knowledge and understanding of Android programming. All the apps in the book are native Android apps and do not need to use or include third-party technologies to

run.

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

The Road to React Robin Wieruch 2017-11-15 LAST UPDATE: 28. September 2022 If you are looking for a comprehensive and pragmatic yet concise and up-to-date React.js feat. Hooks book, the Road to React is for you. What you will learn. In "The Road to React" you will learn about all the fundamentals of React.js with Hooks while building a full-blown React application step by step. While you create the React application, every chapter will introduce you to a new React key feature. However, there is more than only the fundamentals: The book dives into related topics (e.g. React with TypeScript, Testing, Performance Optimizations) and advanced feature implementations like client- and server-side searching. At the end of the book, you will have a fully working deployed React application. Is it up to date? Programming books are usually outdated soon after their release, but since this book is self- published, I can update it as needed whenever a new version of something related to this book gets released. I am a beginner. Is this book for me? Yes. The book starts from zero and takes you through the learning experience step by step. Every chapter builds up on the learnings from the previous chapter. In addition, at the end of every chapter, exercises fortify your lessons learned. If you got stuck in a chapter, you will always find a reference URL to the status quo of the actual code. Core Concepts Pragmatic: Master React while building a complete application step by step. Problems Solving: You need to experience a problem first before solving it. The Why: Readers like how the book answers the Why, not only the How. Table of Contents Fundamentals of React Hello React Requirements Setting up a React Project Meet the React Component React JSX Lists in React Meet another React Component React Component Instantiation ReactDOM React Component Definition (Advanced) Handler Function in JSX React Props React State Callback Handlers in JSX Lifting State in React React Controlled Components Props Handling (Advanced) React Side-Effects React Custom Hooks (Advanced) React Fragments Reusable React Component React Component Composition Imperative React Inline Handler in JSX React Asynchronous Data React Conditional Rendering React Advanced State React Impossible States Data Fetching with React Data Re-Fetching in React Memoized Handler in React (Advanced) Explicit Data Fetching with React Third-Party Libraries in React Async/Await in React (Advanced) Forms in React React's Legacy React Class Components React Class Components: State Imperative React Styling in React CSS in React CSS Modules in React Styled Components in React SVGs in React React Maintenance Performance in React (Advanced) TypeScript in React Unit Testing to Integration Testing React Project Structure Real World React (Advanced) Sorting Reverse Sort Remember Last Searches Paginated Fetch Deploying a React Application Build Process Deploy to Firebase

React Native - Building Mobile Apps with JavaScript Vladimir Novick 2017-08-23 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 StoreIn DetailThe 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 StoreStyle and approachThis 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.

Redux in Action Marc Garreau 2018-05-11 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

Learning Redux Daniel Bugl 2017-08-31 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.

Hands-On Design Patterns with React Native Mateusz Grzesiukiewicz 2018-09-29 Learn how to write cross platform React Native code by using effective design patterns in the JavaScript world. Get to know industry standard patterns as well as situational patterns. Decouple your application with these set of “Idea patterns”. **Key Features** Mobile development in React Native should be done in a reusable way. Learn how to build scalable applications using JavaScript patterns that are battle tested. Try effective techniques on your own using over 80 standalone examples. **Book Description** React Native helps developers reuse code across different mobile platforms like iOS and Android. This book will show you effective design patterns in the React Native world and will make you ready for professional development in big teams. The book will focus only on the patterns that are relevant to JavaScript, ECMAScript, React and React Native. However, you can successfully transfer a lot of the skills and techniques to other languages. I call them “Idea patterns”. This book will start with the most standard development patterns in React like component building patterns, styling patterns in React Native and then extend these patterns to your mobile application using real world practical examples. Each chapter comes with full, separate source code of applications that you can build and run on your phone. The book is also diving into architectural patterns. Especially how to adapt MVC to React environment. You will learn Flux architecture and how Redux is implementing it. Each approach will be presented with its pros and cons. You will learn how to work with external data sources using libraries like Redux thunk and Redux Saga. The end goal is the ability to recognize the best solution for a given problem for your next mobile application. **What you will learn** Explore the design Patterns in React Native Learn the best practices for React Native development Explore common React patterns that are highly used within React Native development Learn to decouple components and use dependency injection in your applications Explore the best ways of fetching data from the backend systems Learn the styling patterns and how to implement custom mobile designs Explore the best ways to organize your application code in big codebases **Who this book is for** The ideal target audience for this book are people eager to learn React Native design patterns who already know the basics of JavaScript. We can assume that the target audience already knows how to write Hello World in JavaScript and know what are the functions, recursive functions, JavaScript types and loops.

React Cookbook Carlos Santana Roldán 2018-08-30 Over 66 hands-on recipes that cover UI development, animations, component architecture, routing, databases, testing, and debugging with React **Key Features** Use essential hacks and simple techniques to solve React application development challenges Create native mobile applications for iOS and Android using React Native Learn to write robust tests for your applications using Jest and Enzyme **Book Description** Today's web demands efficient real-time applications and scalability. If you want to learn to build fast, efficient, and high-performing applications using React 16, this is the book for you. We plunge directly into the heart of all the most important React concepts for you to conquer. Along the way, you'll learn how to work with the latest ECMAScript features. You'll see the fundamentals of Redux and find out how to implement animations. Then, you'll learn how to create APIs with Node, Firebase, and GraphQL, and improve the performance of our application with Webpack 4.x. You'll find recipes on implementing server-side rendering, adding unit tests, and debugging. We also cover best practices to deploy a React application to production. Finally, you'll learn how to create native mobile applications for iOS and Android using React Native. By the end of the book, you'll be saved from a lot of trial and error and developmental headaches, and you'll be on the road to becoming a React expert. **What you will learn** Gain the ability to wield complex topics such as Webpack and server-side rendering Implement an API using Node.js, Firebase, and GraphQL Learn to maximize the performance of React applications Create a mobile application using React Native Deploy a React application on Digital Ocean Get to know the best practices when organizing and testing a large React application **Who this book is for** If you're a JavaScript developer who wants to build fast, efficient, scalable solutions, then you're in the right place. Knowledge of React will be an advantage but is not required. Experienced users of React will be able to improve their skills.

Practical Enterprise React Devlin Duldulao 2021-09-25 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.

Learning Patterns Lydia Hallie 2021-10-31 In this book, you will learn design patterns, performance and rendering patterns for building high-quality web applications using modern JavaScript and React. Patterns are time-tested templates for writing code. They can be really powerful, whether you're a seasoned developer or beginner, bringing a valuable level of resilience and flexibility to your codebase. Whether it's better user-experience, developer-experience or just smarter architecture, the patterns in "Learning Patterns" can be a valuable consideration for any modern web application.

React for Real Ludovico Fischer 2017-09-16 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.

MERN Quick Start Guide Eddy Wilson 2018-05-31 The MERN stack is a collection of great tools – MongoDB, ExpressJS, React, and Node – that provide a strong base for a developer to build easily maintainable web applications. With each of them a JavaScript or JavaScript-based technology, the shared programming language means it takes less time to develop web applications.

React Native for Mobile Development Akshat Paul 2019-06-12 Develop native iOS and Android apps with ease using React Native. Learn by doing through an example-driven approach, and have a substantial running app at the end of each chapter. This second edition is fully updated to include ES7 (ECMAScript 7), the latest version of React Native (including Redux), and development on Android. You will start by setting up React Native and exploring the anatomy of React Native apps. You'll then move on to Redux data flow, how it differs from flux, and how you can include it in your React Native project to solve state management differently and efficiently. You will also learn how to boost your development by including popular packages developed by the React Native community that will help you write less; do more. Finally, you'll learn to how write test cases using Jest and submit your application to the App Store. React Native challenges the status quo of native iOS and Android development with revolutionary components, asynchronous execution, unique methods for touch handling, and much more. This book reveals the the path-breaking concepts of React.js and acquaints you with the React way of thinking so you can learn to create stunning user interfaces. What You'll Learn Build stunning iOS and Android applications Understand the Redux design pattern and use it in your project Interact with iOS and android device capabilities such as addressbook, camera, GPS and more with your apps Test and launch your application to the App Store Who This Book Is For Anyone with JavaScript experience who wants to build native mobile applications but dreads the thought of programming in Objective-C or Java. Developers who have experience with JavaScript but are new or not acquainted to React Native or ReactJS.

React Router Quick Start Guide Sagar Ganatra 2018-09-29 Learn how you can implement routing in a React Web/Native application using React-Router library Key Features Create nested routes and complex workflows for your applications Learn Routing in server-side rendered applications and in Native mobile applications Understand how Redux bindings for React-Router works using the connected-react-router library Book Description React Router is the routing library for React, and it can be used in both React Web and React Native applications. This book is a simple way to get started with React Router and harness its full power for your applications. The book starts with an introduction to React Router and teaches you how to create your first route using the React component. You will then learn about configuring your routes, passing parameters, and creating nested routes. You will be introduced to various components in React-Router and learn different configuration options available for these components. You will then see how to use the Redirect and Switch components. For even greater flexibility, you will learn about BrowserRouter, HashRouter, NativeRouter, and StaticRouter. By the end of the book, you will have set up a project with React Router and make routing configuration

work in a server-side rendered React application, a mobile application built with React Native and also understand how Redux and React-Router can be used in the same application. What you will learn Create your first Route using the Route component Protect routes from unauthorized access by using the redirect component Navigate to your defined route using Link and NavLink Configure BrowserRouter and HashRouter using various props Use StaticRouter for routing in server-side rendered React applications Implement routing in a React Native app using react-router-native Using connected-react-router library with React-Router for better state management Who this book is for This book is for JavaScript developers who have basic knowledge of React and who want to harness the power and flexibility of React Router

React in Action Mark Thomas 2018-05-28 Summary React in Action introduces front-end developers to the React framework and related tools. This clearly written, example-rich book begins by introducing you to React, diving into some of the fundamental ideas in React, and working with components. In the second section, you'll explore the different ways that data works in React as well as learning more about components. You'll also find several useful appendixes covering related topics like React tooling and the React ecosystem. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Facebook created React to help deliver amazing user experiences on a website with thousands of components and an incomprehensible amount of traffic. The same powerful tools are available to you too! The key is a clever design for managing state, data flow, and rendering, so your application is easy to think about and runs smoothly. Add an incredibly rich ecosystem of components and libraries, and you've got a recipe for building web apps that will delight both developers and users. About the Book React in Action teaches you to think like a pro about user interfaces and building them with React. This practical book gets you up and running quickly with hands-on examples in every chapter. You'll master core topics like rendering, lifecycle methods, JSX, data flow, forms, routing, integrating with third-party libraries, and testing. And the included application design ideas will help make your apps pop. As you learn to integrate React into full-stack applications, you'll explore state management with Redux and server-side rendering, and even dabble in React Native for mobile UIs. What's Inside React from the ground up Implementing a routing system with components Server-side rendering in Node.js Working with third-party libraries Testing React components About the Reader Written for developers familiar with HTML, CSS, and JavaScript. About the Author Mark Thomas is an experienced software engineer who works daily with React, JavaScript, and Node.js. He loves clean code, beautiful systems, and good coffee. Table of Contents PART 1 - MEET REACT Meet React Our first component PART 2 - COMPONENTS AND DATA IN REACT Data and data flow in React Rendering and lifecycle methods in React Working with forms in React Integrating third-party libraries with React Routing in React More routing and integrating Firebase Testing React components PART 3 - REACT APPLICATION ARCHITECTURE Redux application architecture More Redux and integrating Redux with React React on the server and integrating React Router An introduction to React Native

React Native By Example Richard Kho 2017-04-24 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.

Decoupled Django Valentino Gagliardi 2021-07-03 Apply decoupling patterns, properly test a decoupled project, and integrate a Django API with React, and Vue.js. This book covers decoupled architectures in Django, with Django REST framework and GraphQL. With practical and simple examples, you'll see firsthand how, why, and

when to decouple a Django project. Starting with an introduction to decoupled architectures versus monoliths, with a strong focus on the modern JavaScript scene, you'll implement REST and GraphQL APIs with Django, add authentication to a decoupled project, and test the backend. You'll then review functional testing for JavaScript frontends with Cypress. You will also learn how to integrate GraphQL in a Django project, with a focus on the benefits and drawbacks of this new query language. By the end of this book, you will be able to discern and apply all the different decoupling strategies to any Django project, regardless of its size. What You'll Learn Choose the right approach for decoupling a Django project Build REST APIs with Django and a Django REST framework Integrate Vue.js and GraphQL in a Django project Consume a Django REST API with Next.js Test decoupled Django projects Who This Book Is For Software developers with basic Django skills keen to learn decoupled architectures with Django. JavaScript developers interested in learning full-stack development and decoupled architectures with Django.