

React Js Web Application Development Traininghott

Facebook's React has changed the way we think about web applications and user interface development. Due to its design, you can use it beyond web. A feature known as the Virtual DOM enables this. In this chapter we'll go through some of the basic ideas behind the library so you understand React a little better before moving on. React is a JavaScript library that forces you to think in terms of components. This model of thinking fits user interfaces well. Depending on your background it might feel alien at first. You will have to think very carefully about the concept of state and where it belongs. Because state management is a difficult problem, a variety of solutions have appeared. In this book, we'll start by managing state ourselves and then push it to a Flux implementation known as Alt. There are also implementations available for several other alternatives, such as Redux, MobX, and Cerebral. React is pragmatic in the sense that it contains a set of escape hatches. If the React model doesn't work for you, it is still possible to revert back to something lower level. For instance, there are hooks that can be used to wrap older logic that relies on the DOM. This breaks the abstraction and ties your code to a specific environment, but sometimes that's the pragmatic thing to do. One of the fundamental problems of programming is how to deal with state. Suppose you are developing a user interface and want to show the same data in multiple places. How do you make sure the data is consistent? Historically we have mixed the concerns of the DOM and state and tried to manage it there. React solves this problem in a different way. It introduced the concept of the Virtual DOM to the masses. Virtual DOM exists on top of the actual DOM, or some other render target. It solves the state manipulation problem in its own way. Whenever changes are made to it, it figures out the best way to batch the changes to the underlying DOM structure. It is able to propagate changes across its virtual tree as in the image above. Virtual DOM Performance Handling the DOM manipulation this way can lead to increased performance. Manipulating the DOM by hand tends to be inefficient and is hard to optimize. By leaving the problem of DOM manipulation to a good implementation, you can save a lot of time and effort. React allows you to tune performance further by implementing hooks to adjust the way the virtual tree is updated. Though this is often an optional step. The biggest cost of Virtual DOM is that the implementation makes React quite big. You can expect the bundle sizes of small applications to be around 150-200 kB minified, React included. Gzipping will help, but it's still big.

Learn how to create dynamic full-stack applications with ReactJS and other leading JavaScript tools - smarter web development starts here About This Book* Harness the impressive power of ReactJS and rethink full-stack web development* Build dynamic web applications using the tools created by the innovators driving the tech industry* Created to make you a smarter, more confident web developer Who This Book Is For This book is for JavaScript developers who want to create highly scalable, enterprise-grade apps. Basic knowledge of ReactJS is necessary, however you do not need detailed knowledge of the other stack components such as NodeJS, Express, MongoDB, or Falcor. What You Will Learn* See how to build a full-stack app that is scalable and designed for the demands of modern users* Create a powerful JWT-based authentication full-stack "starter-kit"* Make your app extremely stable and resilient with Redux and its immutable single state tree* Explore the new possibilities given by Falcor, the middleware built by Netflix* Find out how Redux works alongside ReactJS - and how it makes building an isomorphic app easier* Deploy and maintain your apps successfully using Docker and AWS In Detail Full-stack web development is being redefined by the impact of ReactJS. If MEAN demonstrated just how effective combining JavaScript frameworks and tools could be for the modern web developer, by replacing Angular with React, developers have an easier way to build isomorphic web applications where code can run on both the client and server. This book will get you up to speed with one of the latest strategies to meet the demands of today's dynamic and data-intensive web. Combining detailed insights and guidance with practical and actionable information that will ensure you can build a complete isomorphic web app, it's an essential resource for the forward-thinking developer. You'll learn how to create a reliable and powerful back-end platform with Node.js and Express, as well as exploring how to use MongoDB as the primary database. You'll see how its flexibility is a core part of any full-stack developer's workflow, as well as learning how to use Mongoose alongside it to make data storage safer and more reliable. You'll also get to grips with Redux, and discover how it perfectly complements React to help you to create consistent and stable applications, providing a single immutable store for your entire application, which means that achieving the level of dynamism you want is easier. This book is about more than just dressing up past trends in a new name. It's about the future of development, and about full-stack development with a cutting edge. With insights and guidance on Falcor, the impressive middleware that powers the Netflix UI, the full-stack puzzle will almost be complete. But we'll take you further, beyond development and into deployment, as you learn how to get your application out there using AWS and Docker, which gives you full control over how you manage and maintain your app once it's being used.

Get up to speed with React, React Native, GraphQL and Apollo for building cross-platform native apps with the help of practical examples Key Features Covers the latest features of React such as Hooks, Suspense, NativeBase, and Apollo in this updated third edition Get to grips with the React architecture for writing easy-to-manage web and mobile applications Understand GraphQL and Apollo for building a scalable backend for your cross-platform apps Book Description React and React Native, Facebook's innovative User Interface (UI) libraries, are designed to help you build robust cross-platform web and mobile applications. This updated third edition is improved and updated to cover the latest version of React. The book particularly focuses on the latest developments in the React ecosystem, such as modern Hook implementations, code splitting using lazy components and Suspense, user interface framework components using Material-UI, and Apollo. In terms of React Native, the book has been updated to version 0.62 and demonstrates how to apply native UI components for your existing mobile apps using NativeBase. You will begin by learning about the essential building blocks of React components. Next, you'll progress to working with higher-level functionalities in application development, before putting this knowledge to use by developing user interface components for the web and for native platforms. In the concluding chapters, you'll learn how to bring your application together with a robust data architecture. By the end of this book, you'll be able to build React applications for the web and React Native applications for multiple mobile platforms. What you will learn Delve into the React architecture, component properties, state, and context Get to grips with React Hooks for handling functions and components Implement code splitting in React using lazy components and Suspense Build robust user interfaces for mobile and desktop apps using Material-UI Write shared components for Android and iOS mobile apps using React Native Simplify layout design for React Native apps using NativeBase Write GraphQL schemas to power web and mobile apps Implement web and mobile components that are driven by Apollo Who this book is for This book is for any JavaScript developer who wants to start learning how to use Facebook's UI libraries, React and React Native, for mobile and web application development. Although no prior knowledge of React is needed, working knowledge of JavaScript programming will

help you understand the concepts covered in the book more effectively.

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

Unleash the power of MERN stack by building diverse web applications using React, Node.js, Express, and MongoDB Key Features Create dynamic web applications with the MERN stack Leverage the power of React in building interactive and complex user interfaces Unlock the potential of Node, Express, and MongoDB to build modern full-stack applications Book Description The benefits of using a full JavaScript stack for web development are undeniable, especially when robust and widely adopted technologies such as React, Node, and Express and are available. Combining the power of React with industry-tested, server-side technologies, such as Node, Express, and MongoDB, creates a diverse array of possibilities when developing real-world web applications. This book guides you through preparing the development environment for MERN stack-based web development, to creating a basic skeleton application and extending it to build four different web applications. These applications include a social media, an online marketplace, a media streaming, and a web-based game application with virtual reality features. While learning to set up the stack and developing a diverse range of applications with this book, you will grasp the inner workings of the MERN stack, extend its capabilities for complex features, and gain actionable knowledge of how to prepare MERN-based applications to meet the growing demands of real-world web applications. What you will learn Set up your development environment and develop a MERN application Implement user authentication and authorization using JSON Web Tokens Build a social media application by extending the basic MERN application Create an online marketplace application with shopping cart and Stripe payments Develop a media streaming application using MongoDB GridFS Implement server-side rendering with data to improve SEO Set up and use React 360 to develop user interfaces with VR capabilities Learn industry best practices to make MERN stack applications reliable and scalable Who this book is for Full-Stack React Web Development Projects is for JavaScript developers who have some experience with React, but no previous experience with full-stack development involving Node, Express, and MongoDB, and who want practical guidelines to start building different types of real-world web applications with this stack.

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

A fast-paced guide to designing and building scalable and maintainable web apps with React.js About This Book Build maintainable and performant user interfaces for your web applications using React.js Create reusable React.js components to save time and effort in maintaining your user interfaces Learn how to build a ready-to-deploy React.js web application, following our step-by-step tutorial Who This Book Is For If you're a front-end developer with knowledge of jQuery and its libraries, along with frameworks, such as Angular.JS and Backbone.JS, or native JavaScript development, and you wish to use the fastest web user interface library there is, then this book is ideal for you. What You Will Learn Install powerful React.js tools to make development much more efficient Create React elements with properties and children Get started with stateless and stateful React components Use JSX to speed up your React.js development process Add reactivity to your React components with lifecycle methods Integrate your React components with other JavaScript libraries Utilize the Flux application architecture with your React components Test your React components with Jest test framework In Detail Building web applications with maintainable and performant user interfaces is a challenge that many have faced for more than a decade, but no one has risen to this challenge quite like React.js. Today React.js is used by Facebook, Instagram, Khan Academy, and Imperial College London, to name a few. Many new users recognize the benefits of React.js and adopt it in their own projects, forming a fast-growing community. The speed at which React.js has evolved promises a bright future for those who invest in learning it today. React.js Essentials will take you on a fast-paced journey through building your own maintainable React.js application. Begin by exploring how you can create single and

multiple user interface elements. Create stateless and stateful components and make them reactive, learn to interact between your components and lifecycle methods and gauge how to effectively integrate your user interface components with other JavaScript libraries. Delve deep into the core elements of the Flux architecture and learn how to manage your application using stores. Finish by going that extra mile with the Jest test framework, running multiple tests on your application and find solutions to scale it further without complexity. Style and approach The book adopts a step-by-step, hands-on approach with ample codes to ensure you learn React.js at a fast pace.

Get up and running with ReactJS by developing five cutting-edge and responsive projects About This Book- Create pragmatic real-world applications while learning React and its modern developer tools- Build sustainable user interfaces by transforming data into components of UI- Learn how to generate reusable ReactJS components effectively Who This Book Is For If you are a web developer and wish to learn ReactJS from scratch, then this book is tailor-made for you. Good understanding of Javascript, HTML, and CSS is expected. What You Will Learn- Create, reuse, and compose React components using JSX- Share data between various React components and techniques for data flow within a React app- Handle user interactions with the help of event handlers and dynamic components- Set up and use various next generation ES2015/ES6 features with React- Understand the performance and immutability features of React using React add-ons- Learn the techniques of Animation in React- Use data stores to store model-related data and information- Create a flux-based React application by using Reflux library In Detail ReactJS is an open-source JavaScript library that brings the power of reactive programming to web applications and sites. It aims to address the challenges encountered in developing single-page applications, and is intended to help developers build large, easily scalable and changing web apps. Starting with a project on Open Library API, you will be introduced to React and JSX before moving on to learning about the life cycle of a React component. In the second project, building a multi-step wizard form, you will learn about composite dynamic components and perform DOM actions. You will also learn about building a fast search engine by exploring server-side rendering in the third project on a search engine application. Next, you will build a simple frontpage for an e-commerce app in the fourth project by using data models and React add-ons. In the final project you will develop a complete social media tracker by using the flux way of defining React apps and know about the best practices and use cases with the help of ES6 and redux. By the end of this book, you will not only have a good understanding of ReactJS but will also have built your very own responsive frontend applications from scratch. Style and approach An easy-to-follow program to learn ReactJS with the help of real world projects. Each topic is explained within the context of a project and provides plenty of tips and tricks for using ReactJS.

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

React js Facebook's React has changed the way we think about web applications and user interface development. Due to its design, you can use it beyond web. A feature known as the Virtual DOM enables this. In this chapter we'll go through some of the basic ideas behind the library so you understand React a little better before moving on. What is React? React is a JavaScript library that forces you to think in terms of components. This model of thinking fits user interfaces well. Depending on your background it might feel alien at first. You will have to think very carefully about the concept of state and where it belongs. Because state management is a difficult problem, a variety of solutions have appeared. In this book, we'll start by managing state ourselves and then push it to a Flux implementation known as Alt. There are also implementations available for several other alternatives, such as Redux, MobX, and Cerebral. React is pragmatic in the sense that it contains a set of escape hatches. If the React model doesn't work for you, it is still possible to revert back to something lower level. For instance, there are hooks that can be used to wrap older logic that relies on the DOM. This breaks the abstraction and ties your code to a specific environment, but sometimes that's the pragmatic thing to do. One of the fundamental problems of programming is how to deal with state. Suppose you are developing a user interface and want to show the same data in multiple places. How do you make sure the data is consistent? Historically we have mixed the concerns of the DOM and state and tried to manage it there. React solves this problem in a different way. It introduced the concept of the Virtual DOM to the masses. Virtual DOM exists on top of the actual DOM, or some other render target. It solves the state manipulation problem in its own way. Whenever changes are made to it, it figures out the best way to batch the changes to the underlying DOM structure. It is able to propagate changes across its virtual tree as in the image above. Virtual DOM Performance Handling the DOM manipulation this way can lead to increased performance. Manipulating the DOM by hand tends to be inefficient and is hard to optimize. By leaving the problem of DOM manipulation to a good implementation, you can save a lot of time and effort. React allows you to tune performance further by implementing hooks to adjust the way the virtual tree is updated. Though this is often an optional step. The biggest cost of Virtual DOM is that the implementation makes React quite big. You can expect the bundle sizes of small applications to be around 150-200 kB minified, React included. gzipping will help, but it's still big.

The React Workshop equips you with the knowledge you need to implement React logic in web applications. You'll learn important best practices and essential React methods with the help of interesting examples and exercises.

Level up your React and Next.js skills with advanced concepts about SSR and PWA DESCRIPTION The book starts by introducing the reader to React, what it is and why you need a library like React to work with medium to large scale applications. We then move on to implementing simple client-side programs with React, uncovering modern React practices like React hooks and diving deep into various kinds of hooks. We then move to implement React on the server using Server-Side Rendering to bring benefits of the SEO world to the dynamic rendering nature of front-end libraries. For this, we use Next.js, a very popular implementation of Server-Side Rendering which comes with tons of good practices already baked in. We also take a look at how Progressive Web Apps can be created out of existing React codebases and what benefits it provides us. Finally, we end the book with some React internals (how to React works) and some bleeding-edge features in React which are expected to roll out in 2-3 years fully and would impact how to

React works under the hood. KEY FEATURES - Covers latest and core React concepts including React hooks and React reconciler - Covers about Server Side Rendering with React and how to use it using Next.js - Covers about Progressive Web Apps in React and how to create them - Covers intermediate and advanced React concepts like state management - Covers overview of React for beginners to catch with advanced concepts later - Covers bleeding-edge React concepts on the future of React and how it would work eventually WHAT WILL YOU LEARN ? What React is and how to get started with it ? Modern ways to code React applications ? Implementing Server-Side rendering with/without Next.js on the top of React library ? Working with Progressive Web Apps in React ? How React works under the hood ? Future of React and bleeding-edge React tech you can use today WHO THIS BOOK IS FOR The reader is expected to have a decent understanding of JavaScript/HTML/CSS, and possibly, worked with React a little bit beforehand. Although the first 2 chapters cover basics of React, still it is recommended for users with at least a bit of knowledge and experience with React. TABLE OF CONTENTS 1. React 101 2. Setting up React 3. Components 4. State Management with React 5. Server Side React 6. Introduction to Next.js 7. More with Next.js 8. Progressive Web Apps 9. Bleeding edge React

Create responsive front-end web applications in Python using the React and Material-UI JavaScript libraries, without having to program in JavaScript, by using the Transcrypt transpiler that turns your Python code into JavaScript.

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.

Use React and React Native to build applications for desktop browsers, mobile browsers, and even as native mobile apps About This Book Build React and React Native applications using familiar component concepts Dive deep into each platform, from routing in React to creating native mobile applications that can run offline Use Facebook's Relay, React and GraphQL technologies, to create a unified architecture that powers both web and native applications Who This Book Is For This book is written for any JavaScript developer—beginner or expert—who wants to start learning how to put both of Facebook's UI libraries to work. No knowledge of React is needed, though a working knowledge of ES2015 will help you follow along better. What You Will Learn Craft reusable React components Control navigation using the React Router to help keep your UI in sync with URLs Build isomorphic web applications using Node.js Use the Flexbox layout model to create responsive mobile designs Leverage the native APIs of Android and iOS to build engaging applications with React Native Respond to gestures in a way that's intuitive for the user Use Relay to build a unified data architecture for your

React UIs In Detail React and React Native allow you to build cross-platform desktop and mobile applications using Facebook's innovative UI libraries. Combined with the Flux data architecture and Relay, you can now create powerful and feature-complete applications from just one code base! This book is split into three parts. The first part shows you how to start crafting composable UIs using React, from rendering with JSX and creating reusable components through to routing and creating isomorphic applications that run on Node. We then move on to showing you how to take the concepts of React and apply them to building Native UIs using React Native. You'll find out how to build responsive and streamlined UIs that can properly handle user interactions in a mobile environment. You'll also learn how to access device-specific APIs such as the geolocation API, and how to handle offline development with React Native. Finally, we'll

tie all of these skills together and shows you how you can create React applications that run on every major platform. As well as understanding application state in depth, you'll learn how to leverage Relay to make feature-complete, data-driven web and native mobile applications. Style and approach Split into three major sections to help organize your learning, this hands-on, code-first book will help you get up to speed with React and React Native—the UI framework that powers Netflix, Yahoo, and Facebook.

Get up and running with ReactJS by developing five cutting-edge and responsive projects About This Book Create pragmatic real-world applications while learning React and its modern developer tools Build sustainable user interfaces by transforming data into components of UI Learn how to generate reusable ReactJS components effectively Who This Book Is For If you are a web developer and wish to learn ReactJS from scratch, then this book is tailor-made for you. Good understanding of Javascript, HTML, and CSS is expected. What You Will Learn Create, reuse, and compose React components using JSX Share data between various React components and techniques for data flow within a React app Handle user interactions with the help of event handlers and dynamic components Set up and use various next generation ES2015/ES6 features with React Understand the performance and immutability features of React using React add-ons Learn the techniques of Animation in React Use data stores to store model-related data and information Create a flux-based React application by using Reflux library In Detail ReactJS is an open-source JavaScript library that brings the power of reactive programming to web applications and sites. It aims to address the challenges encountered in developing single-page applications, and is intended to help developers build large, easily scalable and changing web apps. Starting with a project on Open Library API, you will be introduced to React and JSX before moving on to learning about the life cycle of a React component. In the second project, building a multi-step wizard form, you will learn about composite dynamic components and perform DOM actions. You will also learn about building a fast search engine by exploring server-side rendering in the third project on a search engine application. Next, you will build a simple frontpage for an e-commerce app in the fourth project by using data models and React add-ons. In the final project you will develop a complete social media tracker by using the flux way of defining React apps and know about the best practices and use cases with the help of ES6 and redux. By the end of this book, you will not only have a good understanding of ReactJS but will also have built your very own responsive frontend applications from scratch. Style and approach An easy-to-follow program to learn ReactJS with the help of real world projects. Each topic is explained within the context of a project and provides plenty of tips and tricks for using ReactJS.

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

Beginner to Expert in Web development with JavaScript: From HTML to React-Redux KEY FEATURES - Acquire web development skills to build independent applications - Understand the basics of HTML, CSS, JavaScript, React and Redux - Create build beautiful applications using HTML, CSS, JavaScript, React and Redux - Learn how to debug and unit test your applications properly to build good end products - Follow best practices to write good quality code and build performant applications DESCRIPTION This book will take you on a complete journey of learning web development, starting right with the basics. The book begins with the history of web development and JavaScript, how it has evolved over these years, and how it still keeps growing with new features. Next, you will learn the basic pillars of web development - HTML, CSS, and JavaScript. You will learn about the functional, object-oriented programming and asynchronous behaviour, and how JavaScript provides for these. Empowered with the basics, you will proceed to learn the new features of JavaScript, ES2015, and the latest ES2019. Next, you will apply your learning to build a real application to see how the Web takes shape. At the end, you will also have an introductory section on ReactJS, one of the modern frameworks for UI development and also develop a simple weather application using React. You will be introduced to Redux as the state container for React applications. This book will conclude with an introductory look at additional topics which can be taken up to become a professional and in building enterprise level applications. WHAT WILL YOU LEARN By the end of the book, you will be building real web applications to put your knowledge to practice. This book introduces all the concepts to get started with web application development. To further excel in this field, you really need to practice by building a lot many applications, implementing your own ideas or imitating existing websites. Also remember to practice additional examples provided in the code bundle of the book to master this field. WHO THIS BOOK IS FOR This book can be used by people who are completely new to software development and want to get into front-end web development by starting from basics. This book can also be used by JavaScript users for a quick reference to the fundamentals of HTML, CSS, JS, and learn ReactJS with Redux, as well as the new features in JavaScript ES2019. Table of Contents 1. History of JS and how it has revolutionized web development 2. HTML: Creating Web Content 3. CSS: Making content beautiful 4. JavaScript Programming: Making application Interactive 5. Functional programming with JavaScript 6. Object-Oriented JavaScript 7. Asynchronous Programming 8. What's new in ES2019 JavaScript 9. Building an application with JavaScript 10. Debugging JavaScript Applications 11. Unit test automation 12.

Build and Deploy an Application 13. JavaScript Best Practices 14. Introduction to React 15. Building an application with React 16. State Management in React applications 17. Debugging, Testing, and Deploying React applications 18. What is next - for becoming a pro?

Discover and learn how to use React and React Native to build mobile, desktop and web apps. From composable and Native UIs through to device-specific APIs and offline development, this book has everything you need to create engaging and user-friendly React applications which run on all major platforms.

This book is an updated and improved project-based guide to help you extend the capabilities of React into building full-stack projects by exploring the industry-tested MERN stack. Starting from the set up for your full-stack apps, you will learn to create the front end, back end, and everything in between by building fun and engaging projects.

Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. 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 16. 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. 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 features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack 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.

ReactJS Become a professional in web app development This book is an exploration of React, which is one of the available JavaScript libraries. The first part of this book is a guide to the reader on how to handle complex states in React JS. You will learn to do referencing in a List and within another reference. Baobab-react is explored in this section, along with how to use it for the purpose of passing a state to your components in React. A scrollable table is discussed, and how to create this in React. Calculations on how to get the rows and the columns for the table are given. With this kind of table, you will be able to add much content to it. The process of rendering on the server-side of your application in react is explained. This is done using the React-router and Redux. The book also guides you on how to create a Chrome extension in React. Visualization of data in React JS is also discussed in this book. You will also learn how to show exceptions in your app. The process of testing components in React is discussed as well as building a React menu. The following topics are covered in this book: Handling of Complex States Creating a Scrollable Table In React Rendering on the Server-Side Creating a Chrome Extension Data Visualization in React.js Showing Exceptions Testing React Components Building a Sliding Menu Creating a Dropdown React JS and Flux Architecture Download your copy of "ReactJS" by scrolling up and clicking "Buy Now With 1-Click" button.

Takes you through creating your own API, building a full real-time web app, securing your Node systems, and practical applications of the latest Async and Await technologies. It maps out everything in a comprehensive, easy-to-follow package designed to get you up and running quickly. Key Features Entirely project-based and practical Explains the "why" of Node.js features, not just the "how", providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node.js – npm, MongoDB, version control with Git, and many more Book Description Advanced Node.js Development is a practical, project-based book that provides you with all you need to progress as a Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developer's toolkit. If you're looking to create real-world Node applications, or you want to switch careers or launch a side-project to generate some extra income, then you're in the right place. This book was written around a single goal: turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. There's no better time to dive in. According to the 2018 Stack Overflow Survey, Node is in the top ten for back-end popularity and back-end salary. This book is built from the ground up around the latest version of Node.js (version 9.x.x). You'll be learning all the cutting-edge features available only in the latest software versions. This book delivers advanced skills that you need to become a professional Node developer. Along this journey you'll create your own API, you'll build a full real-time web app and create projects that apply the latest Async and Await technologies. Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node.js projects in a comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Develop, test, and deploy real-world Node.js applications Master Node.js by building practical, working examples Use awesome third-party Node modules such as MongoDB, Mongoose, Socket.io, and Express Create real-time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications, switch careers, or freelance as a Node developer. You should have a basic understanding of JavaScript in order to follow this book. This book follows directly on from Learning Node.js Development, but more advanced readers can benefit from this book without having read the first part.

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

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

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.

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.

TypeScript is among the fastest-growing languages, helping developers build full-stack apps by integrating with powerful frameworks such as React and Node.js. With this book, you'll get started with TypeScript and build an SPA with React and middleware using Node.js and Express. Finally, you'll be able to package your web app and deploy it on AWS. Build powerful cross-platform desktop applications with web technologies such as Node, NW.JS, Electron, and React About This Book Build different cross-platform HTML5 desktop applications right from planning, designing, and deployment to enhancement, testing, and delivery Forget the pain of cross-platform compatibility and build efficient apps that can be easily deployed on different platforms. Build simple to advanced HTML5 desktop apps, by integrating them with other popular frameworks and libraries such as Electron, Node.JS, Nw.js, React, Redux, and TypeScript Who This Book Is For This book has been written for developers interested in creating desktop applications with HTML5. The first part requires essential web-master skills (HTML, CSS, and JavaScript). The second demands minimal experience with React. And finally for the third it would be helpful to have a basic knowledge of React, Redux, and TypeScript. What You Will Learn Plan, design, and develop different cross-platform desktop apps Application architecture with React and local state Application architecture with React and Redux store Code design with TypeScript interfaces and specialized types CSS and component libraries such as Photonkit, Material UI, and React MDL HTML5 APIs such as desktop notifications, WebSockets, WebRTC, and others Desktop environment integration APIs of NW.js and Electron Package and distribute for NW.JS and Electron In Detail Building and maintaining cross-platform desktop applications with native languages isn't a trivial task. Since it's hard to simulate on a foreign platform, packaging and distribution can be quite platform-specific and testing cross-platform apps is pretty complicated. In such scenarios, web technologies such as HTML5 and JavaScript can be your lifesaver. HTML5 desktop applications can be distributed across different platforms (Window, MacOS, and Linux) without any modifications to the code. The book starts with a walk-through on building a simple file explorer from scratch powered by NW.JS. So you will practice the most exciting features of bleeding edge CSS and JavaScript. In addition you will learn to use the desktop environment integration API, source code protection, packaging, and auto-updating with NW.JS. As the second application you will build a chat-system example implemented with Electron and React. While developing the chat app, you will get Photonkit. Next, you will create a screen capturer with NW.JS, React, and Redux. Finally, you will examine an RSS-reader built with TypeScript, React, Redux, and Electron. Generic UI components will be reused from the React MDL library. By the end of the book, you will have built four desktop apps. You will have covered everything from planning, designing, and development to the enhancement, testing, and delivery of these apps. Style and approach Filled with real world examples, this book teaches you to build cross-platform desktop apps right from scratch using a step-by-step approach.

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

Create powerful applications with ReactJS, the most popular platform for web developers today About This Book- Create web apps with the most popular JavaScript library in the world- Learn how to speed up your development process and save valuable time- Work through step-by-step tutorials that provide easy-to-understand solutions to real-world problems Who This Book Is For This book is for those who want to develop applications with ReactJS. With its wide

variety of topics, it caters both to the inexperienced developer as well as to the advanced, and it doesn't require any prior experience with ReactJS. What You Will Learn- Create a development environment that speeds up your development process- Find out about responsive web development and create apps that can be used on any device- Effortlessly connect to public and private APIs- Create efficient components that are easily testable and small enough to completely understand- Understand what data flow means in ReactJS and why you never need to worry about where data changes originate- Create universal apps that run on the browser as well as on the server- Work with modern front-end tooling and level up your skills- Train yourself to think in terms of ReactJS

In DetailThe JavaScript revolution has landed! ReactJS is one of those rare technologies that comes out of nowhere and turns established practices on their head. It provides a different way of thinking about how you should develop your apps, and has already gained a massive adoption among web developers. Join the revolution, build web apps faster, and have more fun developing! Packed with real-world code, this book starts by covering the idea behind ReactJS and the key concepts you must familiarize yourself with. You will learn how to bootstrap your ReactJS projects and you'll also be provided with a handy scaffolding that you can use and reuse over and over. We then go on to cover a wide variety of apps, and will help you to structure and build your own components. Next, you will build a web shop, create a fully responsive and routable app, and also develop a real-time search app. Further on, you will be taught to work with public APIs to create a map-based application. You will also be taken through some advanced concepts such as Redux that are making a huge splash currently in the world of ReactJS. You'll learn how to efficiently seal off your app for guest access, interact with hardware APIs, and create a photo app. You will then master the art of making your apps universal, and find out how to deploy them to the cloud. Finally, we wrap up the book as you are shown how to make a game. What better way to kick off your ReactJS development journey?

Style and approachThis is an easy-to-follow guide full of real-world ReactJS applications. Each chapter is self-contained, and every code example is explained in detail.

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.

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ReactJS by Example - Building Modern Web Applications with ReactPackt Publishing Ltd

REACT JS: Web Application Development Learn to one of the most popular JavaScript library Some years, developers, and especially the web developers experienced numerous problems when developing single page web applications. This problem persisted until JavaScript React was introduced. This is a JavaScript library which helps in solving problems experienced by programmers when creating web applications which are worth only a single page. The good thing with the library is that it can be integrated with other JavaScript libraries so as to enhance the functionality of your final web application. Here is a preview of what you'll learn: Creating Components in React Comment Box in React Breaking the User Interface into an Hierarchy of components Animations in React Two-way Binding Helpers in React etc. Download your copy of " REACT JS: Web Application Development " by scrolling up and clicking "Buy Now With 1-Click" button. 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.

LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today Build rich and collaborative applications using client-side code with React, Redux, and Firebase Key Features 1) A practical guide covering the full stack for web development with React 16 and Firebase 2) Leverage the power of Firebase Cloud Storage, messaging, functions, OAuth, and database security to develop serverless web applications. 3) Develop high-performance applications without the hassle of setting up complex web infrastructure. Book Description ReactJS is a wonderful framework for UI development. Firebase as a backend with React is a great choice as it is easy, powerful, and provides great developer experience. It removes a lot of boilerplate code from your app and allows you to focus on your app to get it out quickly to users. Firebase with React is also a good choice for Most Viable Product (MVP) development. This book provides more practical insights rather than just theoretical concepts and includes basic to advanced examples – from hello world to a real-time seat booking app and Helpdesk application This book will cover the essentials of Firebase and React.js and will take you on a fast-paced journey through building real-time applications with Firebase features such as Cloud Storage, Cloud Function, Hosting and the Realtime Database. We will learn how to secure our application by using Firebase authentication and database security rules. We will leverage the power of Redux to organize data in the front-end, since Redux attempts to make state mutations predictable by imposing certain restrictions on how and when updates can happen. Towards the end of the book you will have improved your React skills by realizing the potential of Firebase to create real-time serverless web applications. What you will learn Install powerful React.js and Firebase tools to make development much more efficient Create React components with Firebase to save and retrieve the data in real-time Use Firebase Authentication to make your React user interface secure Develop React and Firebase applications with Redux integration Firebase database security rules Firebase Cloud Storage Integration to upload and store data on the cloud Create a complete real-time application with React and firebase Using Firebase Cloud messaging and Cloud functions with React Firebase Cloud Storage integration with React Who this book is for This book is for JavaScript developers who have some previous knowledge of React and want to develop serverless, full-stack applications but without the hassle of setting up a complex infrastructure.

Combining React, one of the most widely used JavaScript frameworks, and GraphQL, the modern way of querying an API, two revolutionary technologies will give you a future-proof and scalable stack you can start building your business around. This book will guide you in implementing applications by using React, Apollo, Node.js and SQL.

Let us full stack development with Spring Boot and React JS. DESCRIPTION Designing Application with Spring Boot 2 & React JS is divided into three parts. The first part introduces you to the essentials of the Spring Boot 2.2 Framework and you will learn how to create REST APIs and how to secure REST APIs. Part 2 steps behind the front end application development with React JS and discuss React features and its advantages toward the front end application development. Part 3 expands on that by showing how to deploy backend and frontend application the PaaS platform and also will discuss how to deploy application container technologies such as Docker. KEY FEATURES ? This book has a very specific goal to make developing REST applications easier and focusing on common challenges of the design of the application with best practices. ? This book is providing practical code examples from real-world experiences. ? This book is not only about Spring Boot 2.2 and React JS overview but also has an in-depth discussion about adopted REST Architectural pattern and its constraints to create the REST APIs. ? The book can act as a tool for learning Spring Boot 2.2 and React JS for the first time as well as a guide and reference for those wanting to dig deeper into specific features. ? This book is also providing deeper information about the Spring Security and JWT token-based authentication for your REST applications. ? This does not only provide information about to design an application using Spring Boot and React JS but also providing how to deploy your application to the cloud platform (PaaS). ? Containerization using Docker is another key feature of this book, how to create a Docker image and how to run it. WHAT WILL YOU LEARN ? Exploring Spring Boot 2.2 new features and essential key components such as Starters, Autoconfiguration, CLI, Actuator. ? Develop a REST application using Spring Boot 2.2 and DevTools. ? Exploring Spring Boot Auto Configuration and Customization. ? Creating application profiles based on the environments. ? Learn to configure backend data using JDBC and Spring Data JPA. ? Learn to configure a DataSource for H2 DB, and also for Maria DB. ? Learn best practices for designing a REST architecture based application. ? Creating a REST application using HATEOAS. ? Consuming REST APIs endpoints with RestTemplate, Traverson, and WebClient. ? Exploring JWT web token for the RESTful APIs and explores how to secure REST APIs using OAuth2 and Spring security. ? Creating TESTING module of the Spring Boot application and Unit & Integration testing. ? Discuss React JS and its components and also discuss React KS features and its advantages and disadvantage. ? Exploring how to create ReactJS components and how to manage ReactJS

component lifecycle. ? Taking a quick overview of consuming the REST API using the React application. ? Deploying the application to the Cloud platform (PaaS). ? Containerization and Deploy using Docker containers WHO THIS BOOK IS FOR Designing Application with Spring Boot 2.2 & React JS is for all Java developers who want to learn Spring Boot 2.2 and React JS as in the enterprise application. Therefore, enterprise Java developers will find it particularly useful in the understanding of Spring Boot 2.2 and React JS and how to develop a backend RESTful application using the Spring Boot 2.2 and frontend application using React JS framework. They will most fully appreciate the examples presented in this book. Before reading this book, readers should have basic knowledge of core java, spring, servlet, filter, XML, and JavaScript. TABLE OF CONTENTS Getting Started with Spring Boot 2.2 Customizing Auto-Configuration Configuring Data and CRUD operations Creating REST APIs with Spring Boot 2.2 Securing REST APIs Testing Spring Boot Application Getting Started with React Creating and Styling React Components Consuming the REST API with React JS Deploying and Containerizing Application

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

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

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