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Learn how React Native works under the hood and what this means for building large-scale, cross-platform, production-ready applications without compromising on the quality and performance. Key Features Explore a modern approach to React Native, covering state management, animations, gestures, and more. Implement best practices and practical techniques for creating large-scale, production-ready apps. Create a development process including workflow automation with GitHub Actions, Fastlane, and Bitrise. Book Description The React Native framework offers a range of powerful features that make it possible to efficiently build high-quality, easy-to-maintain frontend applications across multiple platforms such as iOS, Android, Linux, Mac OS X, Windows, and the web, helping you save both time and money. And this book is your key to unlocking its capabilities. Professional React Native provides the ultimate coverage of essential concepts, best practices, advanced processes, and tips for everyday developer problems. The book makes it easy to understand how React Native works under the hood using step-by-step explanations and practical examples so you can use this knowledge to develop highly performant apps. As you follow along, you'll learn the difference between React and React Native, navigate the React Native ecosystem, and revisit the basics of JavaScript and TypeScript needed to create a React Native application. What's more, you'll work with animations and even control your app with gestures. Finally, you'll be able to structure larger apps and improve developer efficiency through automated processes, testing, and continuous integration. By the end of this React native app development book,

you'll have gained the confidence to build high-performance apps for multiple platforms, even on a bigger scale. What you will learn Become familiar with how React Native works under the hood Understand how to make the most of React Native for app development Explore different approaches to building apps across various platforms Become familiar with process automation and automated testing Contribute to open source code and structure your own code library Understand how to set up the architecture for bigger React Native projects Who this book is for This book is for developers who want to get started with React Native as well as experienced React Native developers interested in building professional cross-platform applications. Familiarity with the basics of JavaScript (including its syntax) and general software engineering concepts, such as data types, control flows, and server/client structures, is required. Although useful, experience with React Native is not necessary. React 16 Tooling covers the most important tools, utilities, and libraries that every React developer needs to know — in detail. Key Features Each chapter presents meta-development solutions to help React developers. The tools used are presented in a practical, solution-oriented approach with no fluff. The chapters are arranged in a logical order that mirrors a typical React development workflow, but you are free to tweak the approaches discussed to fit your own unique style. Book Description React 16 Tooling covers the most important tools, utilities, and libraries that every React developer needs to know — in detail. As React has grown, the amazing toolset around it has also grown, adding features and enhancing the development workflow. Each of these essential tools is presented in a practical manner and in a logical order mirroring the development workflow. These tools will make your development life simpler and happier, enabling you to create better and more performant apps. Adam starts with a hand-picked selection of the best tools for the React 16 ecosystem. For starters, there's the create-react-app utility that's officially supported by the React team. Not only does this tool bootstrap your React project for you, it also provides a consistent and stable framework to build upon. The premise is that when you don't have to think about meta development work, more focus goes into the product itself. Other React tools follow this same approach to automating and improving your development life. Jest makes unit testing quicker. Flow makes catching errors easier. Docker containers make deployment in a stack simpler. Storybook makes developing components straightforward. ESLint makes writing standardized code faster. The React DevTools plugin makes debugging a cinch. React 16 Tooling clears away the barriers so you can focus on developing the good parts. In this book, we'll look at each of these powerful tools in detail, showing you how to build the perfect React ecosystem to develop your apps within.

What you will learn Bootstrap a React application using create-react-app Isolate React component development using Storybook Write effective unit tests for your React components using Jest Ensure that your component code is to standard using ESLint Use browser extensions and built-in component instrumentation to debug React applications Enable type safety in React components with Flowtype Deploy React applications inside a Docker container as part of a larger application stack Who this book is for This book is for React developers of any skill level who want to make their lives easier. It helps to have some familiarity with React, but if you are an experienced web developer looking at React, then this book will show you how to build a resilient toolset around you before you begin. 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. 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 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. 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. 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. Take your web applications to a whole new level with efficient, component-based UIs that deliver cutting-edge interactivity and performance. Key Features Elaborately explains basics before introducing advanced topics Explains creating and managing the state of components across applications Implement over 15 practical activities and exercises across 11 topics to reinforce your learning Book Description Projects like Angular and React are rapidly changing how development teams build and deploy web applications to production. In this book, you'll learn the basics you need to get up and running with React and tackle real-world projects and challenges. It includes helpful guidance on how to consider key user requirements within the development process, and also shows you how to work with advanced concepts such as state management, data-binding, routing, and the popular component markup that is JSX. As you complete the included examples, you'll find yourself well-equipped to move onto a real-world personal or professional frontend project. What you will learn Understand how React works within a wider application stack Analyze how you can break down a standard interface into specific components Successfully create your own increasingly complex React components with HTML or JSX Correctly handle multiple user events and their impact on overall application state Understand the component lifecycle to optimize the UX of your application Configure routing to allow effortless, intuitive navigation through your components Who this book is for If you are a frontend developer who wants to create truly reactive user interfaces in JavaScript, then this is the book for you. For React, you'll need a solid foundation in the essentials of the JavaScript language, including new OOP features that were introduced in ES2015. An understanding of HTML and CSS is assumed, and a basic knowledge of Node.js will be useful in the context of managing a development workflow, but is not essential. If you want to learn how to build efficient React applications, this is your book. Ideal for web developers and software engineers who understand how JavaScript, CSS, and HTML work in the browser, this updated edition provides best practices and patterns for writing modern React code. No prior knowledge of React or functional JavaScript is necessary. With their learning road map, authors Alex Banks and Eve Porcello show you how to create UIs that can deftly display changes without page reloads on large-scale, data-driven websites. You'll also discover how to work with functional programming and the latest ECMAScript features. Once you learn how to build React components with this hands-on guide, you'll understand just how useful React can be in your organization. Understand key functional programming concepts with JavaScript Look under the hood to learn how

React runs in the browser
Create application presentation layers with React
components
Manage data and reduce the time you spend debugging applications
Incorporate React Hooks to manage state and fetch data
Use a routing solution for single-page application features
Learn how to structure React applications with servers in mind
Build modern, scalable, and cloud-ready single-page applications using ASP.NET Core, React, TypeScript, and Azure Key Features
Explore the full potential and latest features of .NET Core 3.0, TypeScript 3, and React
Learn how to manage data, application design, and packaging, and secure your web apps
Discover best practices for using React and TypeScript to build a scalable frontend that interacts with REST APIs
Book Description Microsoft's ASP.NET Core is a robust and high-performing cross-platform web API framework, and Facebook's React uses declarative JavaScript to drive a rich, interactive user experience on the client-side web. Together, they can be used to build full stack apps with enhanced security and scalability at each layer. This book will start by taking you through React and TypeScript components to build an intuitive single-page application. You'll understand how to design scalable REST APIs that can integrate with a React-based frontend. You'll get to grips with the latest features, popular patterns, and tools available in the React ecosystem, including function-based components, React Router, and Redux. The book shows how you can use TypeScript along with React to make the frontend robust and maintainable. You'll then cover important .NET Core features such as API controllers, attribute routing, and model binding to help you build a sturdy backend. Additionally, you'll explore API security with ASP.NET Core identity and authorization policies, and write reliable unit tests using both .NET Core and React before you deploy your app to the Azure cloud. By the end of the book, you'll have gained all the knowledge you need to enhance your C# and JavaScript skills and build full stack, production-ready applications with ASP.NET Core and React. What you will learn
Build RESTful APIs with .NET Core using API controllers
Create strongly typed, interactive, and function-based React components using Hooks
Build forms efficiently using reusable React components
Perform client-side state management with Redux and the React Context API
Secure REST APIs with ASP.NET identity and authorization policies
Run a range of automated tests on the frontend and backend
Implement continuous integration (CI) and continuous delivery (CD) processes into Azure using Azure DevOps
Who this book is for
If you're a web developer looking to build solid full-stack web applications with .NET Core and React, this book is for you. Although this book does not assume any knowledge of React, you're expected to have a basic understanding of .NET Core. 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. 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. Start developing modern day component based web apps using React 16, Redux and TypeScript 3 with this easy to follow guide filled with practical examples. Key Features
Learn the latest and core features of React such as components, React Router, and suspense
Dive into TypeScript 3 and it's core components such as interfaces, types aliases, tuples, generics and much more.
Build small-to-large scale single page applications with React, Redux, GraphQL and TypeScript
Book Description React today is one of the most preferred choices for frontend development. Using React with TypeScript enhances development experience and offers a powerful combination to develop high performing web

apps. In this book, you'll learn how to create well structured and reusable react components that are easy to read and maintain by leveraging modern web development techniques. We will start with learning core TypeScript programming concepts before moving on to building reusable React components. You'll learn how to ensure all your components are type-safe by leveraging TypeScript's capabilities, including the latest on Project references, Tuples in rest parameters, and much more. You'll then be introduced to core features of React such as React Router, managing state with Redux and applying logic in lifecycle methods. Further on, you'll discover the latest features of React such as hooks and suspense which will enable you to create powerful function-based components. You'll get to grips with GraphQL web API using Apollo client to make your app more interactive. Finally, you'll learn how to write robust unit tests for React components using Jest. By the end of the book, you'll be well versed with all you need to develop fully featured web apps with React and TypeScript. What you will learn
Gain a first-hand experience of TypeScript and its productivity features
Transpile your TypeScript code into JavaScript for it to run in a browser
Learn relevant advanced types in TypeScript for creating strongly typed and reusable components.
Create stateful function-based components that handle lifecycle events using hooks
Get to know what GraphQL is and how to work with it by executing basic queries to get familiar with the syntax
Become confident in getting good unit testing coverage on your components using Jest
Who this book is for
The ideal target audience for this book are web developers who want to get started with creating modern day web apps with React and TypeScript. You are expected to have a basic understanding of JavaScript and HTML programming. No prior knowledge of TypeScript and React is needed. 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 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. 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 FeaturesUnderstand the architecture of React and single-page applicationsBuild a modern Web API for your SPA using Node.js, Express, and GraphQLGain a clear and practical understanding of how to build a complete full-stack applicationBook 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 learnDiscover TypeScript's most important features and how they can be used to improve code quality and maintainabilityUnderstand what React Hooks are and how to build React apps using themImplement state management for your React app using ReduxSet up an Express project with TypeScript and GraphQL from scratchBuild a fully functional online forum app using React and GraphQLAdd authentication to your web app using RedisSave and retrieve data from a Postgres database using TypeORMConfigure NGINX on the AWS cloud to deploy and serve your appsWho 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. Level up your React and Next.js skills with advanced concepts about SSR and PWA Key Featuresa- Covers latest and core React concepts including React hooks and React reconcilera- Covers about Server Side Rendering with React and how to use it using Next.jsa- Covers about Progressive Web Apps in React and how to create thema- Covers intermediate and advanced React concepts like state managementa- Covers overview of React for beginners to catch with advanced concepts latera- Covers bleeding-edge React concepts on the future of React and how it would work eventuallyDescriptionThe book starts by introducing the reader to React, what it is and why you need a library like React to work with medium to large scale applications. We then move on to implementing simple client-side programs with React, uncovering modern React practices like React hooks and diving deep into various kinds of hooks. We then move to implement React on the server using Server-Side Rendering to bring benefits of the SEO world to the dynamic rendering nature of front-end libraries. For this, we use Next.js, a very popular implementation of Server-Side Rendering which comes with tons of good practices already baked in. We also take a look at how Progressive Web Apps can be created out of existing React codebases and what benefits it provides us. Finally, we end the book with some React internals (how to React works) and some bleeding-edge features in React which are expected to roll out in 2-3 years fully and would impact how to React works under the hood.What will you learna- What React is and how to get started with ita- Modern ways to code React applicationsa- Implementing Server-Side rendering with/without Next.js - on the top of React librarya- Working with Progressive Web Apps in Reacta- How to React works under the hooda- Future of React and bleeding-edge React tech you can use todayWho this book is forThe reader is expected to have a decent understanding of JavaScript/HTML/CSS, and

possibly, worked with React a little bit beforehand. Although the first 2 chapters cover basics of React, still it is recommended for users with at least a bit of knowledge and experience with React.

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About the Author: Mehul Mohan is an entrepreneur, developer and a security researcher. Currently, he is pursuing his bachelor's degree in CSE at BITS Pilani. He is a WWDC'19 Scholar, and runs `codedamn` - a platform for people to learn coding. You'll often find him creating programming tutorials on his YouTube channel, `codedamn`, having over 100,000 subscribers. He has been acknowledged by companies such as Google, Microsoft, Sony, etc. for his contributions as a security researcher.

Your Blog links:
<https://codedamn.com> <https://mehulmohan.com>

His LinkedIn Profile:
<https://linkedin.com/in/mehulmpt>

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 ...

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. 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. Take your first step in building modern-day component-based web apps using the latest features and capabilities of React and TypeScript with this easy-to-follow guide

Key Features

- Learn to use different React hooks with TypeScript
- Explore different styling approaches while building React web apps
- Gain experience in using React Dev Tools to debug components

Purchase of the print or Kindle book includes a free PDF eBook

Book Description

Reading, navigating, and debugging a large frontend codebase is a major issue faced by frontend developers. This book is designed to help web developers like you learn about ReactJS and TypeScript, both of which power large-scale apps for many organizations. This second edition of *Learn React with TypeScript* is updated, enhanced, and improved to cover new features of React 18 including hooks, state management libraries, and features of TypeScript 4. The book will enable you to create well-structured and reusable

React components that are easy to read and maintain, leveraging modern design patterns. You'll be able to ensure that all your components are type-safe, making the most of TypeScript features, including some advanced types. You'll also learn how to manage complex states using Redux and how to interact with a GraphQL web API. Finally, you'll discover how to write robust unit tests for React components using Jest. By the end of the book, you'll be well-equipped to use both React and TypeScript.

What you will learn

- Gain first-hand experience of TypeScript and its productivity features
- Understand how to transpile your TypeScript code into JavaScript for running in a browser
- Build a React frontend codebase with hooks
- Interact with REST and GraphQL web APIs
- Design and develop strongly typed reusable components
- Create automated component tests

Who this book is for

This book is for experienced frontend developers looking to build large scale web applications using React and TypeScript. Intermediate knowledge of JavaScript, HTML and CSS is a prerequisite. Build fully functional, cloud-ready, and professional web applications using the latest features in the .NET 5 framework and React.js with Microsoft Azure

Key Features

- Explore the new features of .NET 5 with this updated edition of ASP.NET Core 5 and React
- Discover strategies for adopting a full-stack development approach, clean architecture techniques, and development best practices
- Learn how to manage data, design and package applications, and secure your web apps

Book Description

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

- Build RESTful APIs with .NET 5 using API controllers
- Secure REST APIs with identity and authorization policies
- Create strongly typed, interactive, and function-based React components using Hooks
- Understand how to style React components using Emotion.js
- Perform client-side state management with Redux
- Run a range of automated tests on the frontend and backend
- Implement continuous integration and continuous delivery (CI/CD) processes in Azure

using Azure DevOps Who this book is for If you're a web developer looking to get up to speed with full-stack web application development with .NET Core and React, this book is for you. Although the book does not assume any knowledge of React, a basic understanding of .NET Core will help you to get to grips with the concepts covered. You may have picked up this book with some level of JavaScript knowledge. There is also a high probability that you have an idea of what React is. This chapter highlights the key aspects of React as a framework, explains the problems it solves, and describes how you can utilize the features and the rest of the information contained in this book to better your web development practices and create complex, yet maintainable user interfaces using React. Defining React js React js is a JavaScript framework. React was originally created by engineers at Facebook to solve the challenges involved when developing complex user interfaces with datasets that change over time. This is not a trivial undertaking and must not only be maintainable, but also scalable to work at the scale of Facebook. React js was actually born in Facebook's ads organization, where they had been utilizing a traditional client-side Model-View-Controller approach. Applications such as these normally consist of two-way data binding along with rendering template. React changed the way that these applications were created by making some daring advances in web development. When React js was released in 2013, the web development community was both interested and seemingly disgusted by what React was doing. As you will discover throughout this book, React challenges conventions that have become the de-facto standards for JavaScript framework best practices. React does this by introducing many new paradigms and shifting the status quo of what it takes to create scalable and maintainable JavaScript applications and user interfaces. Along with the shift in front-end development mentality, React comes with a rich set of features that make composing a single-page application or user interface approachable for developers of many skill levels—from those who have just been introduced to JavaScript, to seasoned veterans of the web. You will see these features—such as the virtual DOM, JSX, and Flux concepts—as you read this book and discover how they can be used to create complex user interfaces. You will also see, in brief, how Facebook is continually challenging the development world with React Native. React Native is a new open source library for creating native user interfaces utilizing the same principles as React's JavaScript library. By creating a Native UI library, React has pushed its value proposition of "learn once, write anywhere." This paradigm shift applies to being able to utilize the core concepts of React in order to make maintainable interfaces. By now it is possible you are thinking that there is nothing React can't do when it comes to development. This is not the case, and in order to further understand what React is, you need an understanding of what React is not, which you learn later in this chapter. First, you will understand the underlying problems that caused React to be created and how React solves those problems. 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. Master the art of building dynamic, modern web applications with React About This Book Learn the hot new frontend web framework from Facebook - ReactJS, an easy way of developing the V in MVC and a better approach to software engineering in JavaScript A fast-paced guide to designing and building scalable and maintainable web apps with React.js Learn all the new ES6 features and be among the most prominent JavaScript developers who can write efficient JS programs as per the latest standards Master the art of building modern web applications using React Learn to build modern native iOS and Android applications using JavaScript and the incredible power of React Who This Book Is For This course is for

web developers that want to unlock high performance dynamism in the applications that they create. If you want a comprehensive journey into one of the most important JavaScript frameworks around today, dive into this course. What You Will Learn Take control of the front end with reactive JavaScript programming Discover what ReactJS offers your development - before mastering it Create React elements with properties and children Use JSX to speed up your React development process Test your React components with the Jest test framework Learn the latest syntax of ES6 Execute ES6 in a non-supported ES6 environment Learn the principles of object-oriented programming Create a complete single-page application Use an application design plan to write smarter, more meaningful code Learn how to use animations to give extra style to your application Get to grips with the React Native environment Write your own custom native UI components Integrate native modules in Objective-C and Java that interact with JavaScript In Detail ReactJS has helped to transform the web as we know it. Designed by Facebook to help developers build rapid, responsive UI that can deal with data-intensive usage, it's an essential component in any web developer's skillset. This ReactJS course, in five connected modules, provides you with a fast, engaging and practical route into ReactJS—so you can build powerful, elegant, and modern web applications. Beginning with the Reactive Programming with JavaScript module, you will learn how to take advantage of a reactive and functional programming paradigm to rethink how you approach your JavaScript code. It's built to help you understand the concepts, relevant and applicable for any frontend developer. You'll then dive a little deeper into ReactJS. The second module gives you a rapid look through the fundamentals of ReactJS, showing you how to build a basic application and demonstrating how to implement the Flux architecture. In the third module you will get to grips with ES6—this will make you a more fluent JavaScript developer, giving you control over ReactJS. You can put your old JavaScript hacks aside and instead explore how to create ES6 custom iterators. In the final two modules you'll learn how to fully master ReactJS, exploring its wider ecosystem of tools that have helped to make it one of the most important tools in web development today. Ending with insights and guidance on React Native, the tool built for today's demand for native, intuitive user experiences and interfaces, with this course you can be confident in building dynamic and modern apps with React. Style and approach Consisting of five separate modules, journey from the fundamentals of reactive programming to the exciting possibilities of React Native. Each module builds on each other, helping you to incrementally develop your skills and knowledge. Develop efficient and modern full-stack applications using Spring Boot and React 16 Key Features Develop resourceful backends using Spring Boot and faultless frontends using React. Explore the techniques involved in creating a full-stack app by going through a methodical approach. Learn to add CRUD functionalities and use Material UI in the user interface to make it more user-friendly. Book Description Apart from knowing how to write

frontend and backend code, a full-stack engineer has to tackle all the problems that are encountered in the application development life cycle, starting from a simple idea to UI design, the technical design, and all the way to implementing, testing, production, deployment, and monitoring. This book covers the full set of technologies that you need to know to become a full-stack web developer with Spring Boot for the backend and React for the frontend. This comprehensive guide demonstrates how to build a modern full-stack application in practice. This book will teach you how to build RESTful API endpoints and work with the data access Layer of Spring, using Hibernate as the ORM. As we move ahead, you will be introduced to the other components of Spring, such as Spring Security, which will teach you how to secure the backend. Then, we will move on to the frontend, where you will be introduced to React, a modern JavaScript library for building fast and reliable user interfaces, and its app development environment and components. You will also create a Docker container for your application. Finally, the book will lay out the best practices that underpin professional full-stack web development. What you will learn Create a RESTful web service with Spring Boot Understand how to use React for frontend programming Gain knowledge of how to create unit tests using JUnit Discover the techniques that go into securing the backend using Spring Security Learn how to use Material UI in the user interface to make it more user-friendly Create a React app by using the Create React App starter kit made by Facebook Who this book is for Java developers who are familiar with Spring, but have not yet built full-stack applications 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. 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. React js This book is an exploration of React, which is one of the several Javascript frameworks. The book begins by exploring the framework shallowly in terms of how it works, and the difference it exhibits when compared to use of the other Javascript frameworks. The way in which the framework is used is also discussed in the first section. The book then guides you to display your data in React. In most cases, this involves the use of the "render()" function. You will learn how to use the function for the purpose of displaying the data. Dynamic user interfaces and the interactivity of data and other components in React is then explained in this book. The use of multiple components in React applications is covered in detail, so you will know how to use these in your React applications. The book explores the reusable components of React. You will learn how to create these and then use them in your React applications. The process of tooling integration in React is also discussed in detail. Add-ons, which are very useful when it comes to how your application works on browsers, are thoroughly explained. You will learn step by step how to create these from scratch and then integrate them into your applications. The test utilities which are supported in React are also discussed in detail. Most of these are in the form of methods, and you will learn how to use them. Here is a preview of what you'll learn: Definition How to Display Data in React Dynamic UIs and Interactivity Multiple Components Reusable Components in React Tooling Integration Add-ons in React "Written for beginner-to-intermediate web, Android, and iOS developers. 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. Learn to build modern native iOS and Android applications using JavaScript and the incredible power of React About This Book Learn to design and build a fully-featured application using the newest cutting-edge framework from Facebook Leverage your JavaScript skills to become a native app developer Develop custom UI components, implement smooth navigation, and access native features such as geolocation and local storage Who This Book Is For This book is for web developers who want to learn to build fast, good-looking, native mobile applications using the skills they already have. If you already have some JavaScript knowledge or are using React on the web, then you will be able to quickly get up and running with React Native for iOS and Android. What You Will Learn Set up the React Native environment on both devices and emulators Gain an in-depth understanding of how React Native works behind the scenes Write your own custom native UI components Learn the ins and outs of screen navigation Master the art of layout and styles Work with device-exclusive data such as geolocation Develop native modules in Objective-C and Java that interact with JavaScript Test and deploy your application for a production-ready environment In Detail React Native is a game-changing approach to hybrid mobile development. Web developers can leverage their existing skills to write mobile applications in JavaScript that are truly native without using cross-compilation or web views. These applications have all of the advantages of those written in Objective-C or Java, combined with the rapid development cycle that JavaScript developers are accustomed to. Web developers who want to develop native mobile applications face a high barrier to entry, because they are forced to learn platform-specific languages and frameworks. Numerous hybrid technologies have tried to simplify this process, but have failed to achieve the performance and appearance that users expect. This book will show you all the advantages of true native development that React Native has without the steep learning curve, leveraging the knowledge you already have. We do this by getting you up and running quickly with a sample application. Next, we'll introduce you to the fundamentals of creating components and explain how React Native works under the hood. Once you have established a solid foundation, you will dive headfirst into developing a real-world application from start to finish. Along the way, we will demonstrate how to create multiple screens and navigate between them, use layout and style native UI components, and access native APIs such as

local storage and geolocation. Finally, we tackle the advanced topic of Native modules, which demonstrates that there are truly no limits to what you can do with React Native. Style and approach This book provides a simple and easy way to build mobile applications in JavaScript. Each topic takes you through the life cycle of creating a fully-functional native app, with detailed explanations of the entire process. You may have picked up this book with some level of JavaScript knowledge. There is also a high probability that you have an idea of what React js is. This chapter highlights the key aspects of React as a framework, explains the problems it solves, and describes how you can utilize the features and the rest of the information contained in this book to better your web development practices and create complex, yet maintainable user interfaces using React.

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

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1. React 101
2. Setting up React
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5. Server Side React
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7. More with Next.js
8. Progressive Web Apps
9. Bleeding edge React

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

React and friends. Become a ReactJS expert today 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.

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