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# Progressive Web Apps With React Js Part 3 Offline

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## **SAMIR CONOR**

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### **Progressive Web Application**

**Development by Example** Apress  
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.

### **Progressive Web Apps with Angular** SitePoint

Optimize the performance of your mobile websites and webapps to the extreme. With this hands-on book, veteran mobile and web developer Maximiliano Firtman demonstrates which aspects of your site or app slow down the user's experience, and what you can do to achieve lightning-fast performance. There's much at stake: if you want to boost your app's conversion rate, then tackling performance issues is the best way to start. Learn tools and techniques for working with responsive web design, images, the network layer, and many other ingredients—plus the metrics to check your progress. Ideal for web

developers and web designers with HTML, CSS, JavaScript, and HTTP experience, this is your guide to superior mobile web performance. You'll dive into: Emulators, simulators, and other tools for measuring performance Basic web performance concepts, including metrics, charts, and goals How to get real data from mobile browsers on your real networks APIs and specs for measuring, tracking and improving web performance Insights and tricks for optimizing the first view experience Ways to optimize post-loading experiences and future visits Responsive web design and its performance challenges Tips for extreme performance to achieve best conversion rates How to work with web views inside native apps Build cloud-native mobile and web apps

from scratch through continuous delivery and test automation Packt Publishing Ltd Use Service Workers to Turbocharge Your Web Apps “You have made an excellent decision in picking up this book. If I was just starting on my learning path to mastery of Progressive Web Apps, there are not many folks I would trust more to get me there than John.” —Simon MacDonald, Developer Advocate, Adobe Software developers have two options for the apps they build: native apps targeting a specific device or web apps that run on any device. Building native apps is challenging, especially when your app targets multiple system types—i.e., desktop computers, smartphones, televisions—because user experience varies dramatically across devices.

Service Workers—a relatively new technology—make it easier for web apps to bridge the gap between native and web capabilities. In *Learning Progressive Web Apps*, author John M. Wargo demonstrates how to use Service Workers to enhance the capabilities of a web app to create Progressive Web Apps (PWA). He focuses on the technologies that enable PWAs and how to use those technologies to enhance your web apps to deliver a more native-like experience. Build web apps a user can easily install on their local system and that work offline or on low-quality networks Utilize caching strategies that give you control over which app resources are cached and when Deliver background processing in a web application Implement push notifications that enable an app to easily

engage with users or trigger action from a remote server Throughout the book, Wargo introduces each core concept and illustrates the implementation of each capability through several complete, operational examples. You'll start with simple web apps, then incrementally expand and extend them with state-of-the-art features. All example source code is available on GitHub, and additional resources are available on the author's companion site, [learningpwa.com](http://learningpwa.com). Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

[Progressive Web Apps with Preact](#) Packt Publishing Ltd

Several client-side storage options are

available to web applications, but one area that's been lacking until now is file I/O—the ability to organize binary data into a true hierarchy of folders. That has changed with the advent of HTML5. With this book, you'll learn how to provide your applications with a file system that enables them to create, read, and write files and folders in a sandboxed section of the user's local filesystem. Author Eric Bidelman, a Senior Developer Programs Engineer on the Google Chrome team, provides several techniques and complete code examples for working with the HTML5 Filesystem API. Learn common operations for working with files and directories Become familiar with HTML5's storage use cases and security considerations Understand the storage options available, including

temporary, persistent, and unlimited Write text or append data to an existing user file Import files into your application by accessing a user's hard drive Get techniques for using a file with filesystem, blob, or data URLs Use the synchronous version of the HTML5 Filesystem API within a Web Worker context

High Performance Mobile Web Packt Publishing Ltd

Progressive Web Apps with React *Create Responsive, Fast and Reliable PWAs Using Angular* Simon and Schuster Build fast, reliable web applications using the latest web development technologies. This book provides step-by-step learning through the process of transforming a “traditional” web app into a high-performing progressive web app,

leveraging principles and lessons taught throughout the book. You will learn to improve the performance, reliability, reach, and user engagement of mobile web applications through the use of specific, practical examples. Because most non-trivial web applications developed today use JavaScript frameworks, you will learn about the most popular frameworks offering a PWA right out of the box, including React, Preact, Vue.js, Angular, and Ionic. You also will learn which tools to enlist to measure your application's performance, such as Google's Lighthouse. Beginning Progressive Web App Development includes best practices to make your app work even when an end user has a poor or no Internet connection, and to send notifications and reminders with the

Notification and Push APIs to keep your users engaged. You will come away with an understanding of the technologies—application shells, server push technology, and caching—that will allow you to rapidly deliver content to your users. As important as it is to provide mobile users with a great experience, the principles of PWAs are not limited to smartphones. Most of what you will learn in this book is directly applicable to web applications on all screen sizes. What You'll Learn Achieve nearly instant loading times Implement service workers to make your app load faster and work while users are offline Keep users engaged with web notifications Measure the performance and reach of your web applications Transform your existing web app into a

progressive web app Create a progressive web app from scratch Understand what building a truly fast web app entails with Google's PRPL pattern Who This Book Is For Web developers with prior JavaScript experience

Advanced Web Development with React  
Packt Publishing Ltd

WordPress is much more than a blogging platform. As this practical guide clearly demonstrates, you can use WordPress to build web apps of any type—not mere content sites, but full-blown apps for specific tasks. If you have PHP experience with a smattering of HTML, CSS, and JavaScript, you'll learn how to use WordPress plugins and themes to develop fast, scalable, and secure web apps, native mobile apps, web services,

and even a network of multiple WordPress sites. The authors use examples from their recently released SchoolPress app to explain concepts and techniques throughout the book. All code examples are available on GitHub. Compare WordPress with traditional app development frameworks Use themes for views, and plugins for backend functionality Get suggestions for choosing WordPress plugins—or build your own Manage user accounts and roles, and access user data Build asynchronous behaviors in your app with jQuery Develop native apps for iOS and Android, using wrappers Incorporate PHP libraries, external APIs, and web service plugins Collect payments through ecommerce and membership plugins Use techniques to speed up and scale

your WordPress app

Covers Play, Akka, and Reactive Streams  
BPB Publications

CSS has grown from a language for formatting documents into a robust language for designing web applications. Its syntax is easy to learn, making CSS a great entry point for those new to programming. Indeed, it's often the second language that developers learn, right behind HTML. As CSS's feature set and abilities have grown, so has its depth. In this collection of books, we'll be exploring some of the amazing things that developers can do with CSS today; tasks that in the past might only have been achievable with some pretty complex JavaScript, if at all. This collection contains: Modern CSS, which explores topics like variable fonts and

transforms, and shows how they might be used in the real world CSS Grid Layout: 5 Practical Projects, which shows five complete projects that utilize the Grid Layout module CSS Tools & Skills which looks at essential CSS tools and skills for modern front-end developers

Pro React 16 Apress

React, an intuitive web frontend framework, extends its capabilities in building apps for mobile and VR. This book aims to help you in building React applications through a series of real-world projects increasing in complexity as you progress. With coverage on various modern React tooling, you will get a wholesome knowledge of React development.

Functional Web Development with Elixir,

OTP, and Phoenix BPB Publications  
Gatsby is a powerful React static site generator that enables you to create lightning-fast web experiences. Complete with hands-on tutorials and projects, this easy-to-follow guide will help you to understand the core concepts of GatsbyJS and show you how to build client websites your users will love.

**Painless web apps with React, JSX, Redux, and GraphQL** Manning Publications

A definitive guide on frontend development with Angular from design to deployment Key Features Develop web applications from scratch using Angular and TypeScript Explore reactive programming principles and RxJS to develop and test apps easily Study

continuous integration and deployment on the AWS cloud Book Description If you have been burnt by unreliable JavaScript frameworks before, you will be amazed by the maturity of the Angular platform. Angular enables you to build fast, efficient, and real-world web apps. In this Learning Path, you'll learn Angular and to deliver high-quality and production-grade Angular apps from design to deployment. You will begin by creating a simple fitness app, using the building blocks of Angular, and make your final app, Personal Trainer, by morphing the workout app into a full-fledged personal workout builder and runner with an advanced directive building - the most fundamental and powerful feature of Angular. You will learn the different ways of architecting

Angular applications using RxJS, and some of the patterns that are involved in it. Later you'll be introduced to the router-first architecture, a seven-step approach to designing and developing mid-to-large line-of-business apps, along with popular recipes. By the end of this book, you will be familiar with the scope of web development using Angular, Swagger, and Docker, learning patterns and practices to be successful as an individual developer on the web or as a team in the Enterprise. This Learning Path includes content from the following Packt products: *Angular 6 by Example* by Chandermani Arora, *Kevin Hennessy Architecting Angular Applications with Redux, RxJS, and NgRx* by Christoffer Noring, *Angular 6 for Enterprise-Ready Web Applications* by Doguhan Uluca

What you will learn Develop web applications from scratch using Angular and TypeScript Explore reactive programming principles, RxJS to develop and test apps efficiently Study continuous integration and deployment your Angular app on the AWS cloud Who this book is for If you're a JavaScript or frontend developer looking to gain comprehensive experience of using Angular for end-to-end enterprise-ready applications, this Learning Path is for you.

*Universal Development with React*

Editora Casa do Código

Harness the power of Angular to build fast, high performance progressive web apps that work offline. Learn exactly how to create an Angular Progressive Web App (PWA) from scratch, how you can

use different tools to audit and improve it, and leverage Angular CLI or Workbox to turn your app into a PWA. Using browser APIs – including the Credential Management, Payment Request, Geolocation, Web Bluetooth, WebUSB and Generic Sensors APIs – you can unleash the potential of PWAs and build applications that enhance user experience. Angular’s game-changing built-in features, including the Angular service worker module, can be leveraged to construct responsive and reliable PWAs that can look and feel just like native mobile apps. You'll learn how to boost your app speed, how to increase user engagement using push notifications, and how to implement offline storage and different caching APIs in Angular. You'll even see how to

convert an existing Angular app into a PWA. Whether you’re new to building PWAs, or want to learn how to use Angular to improve your app development, Progressive Web Apps with Angular provides the know-how to build and deploy an Angular PWA. What Readers Will Learn Build an Angular app that looks and feels just like a native mobile app Audit and improve an Angular PWA with different tools Increase user engagement by using push notifications Offline storage and different caching APIs in Angular Implement modern technologies into an Angular PWA Who This Book Is For Developers with basic knowledge of HTML, JavaScript and Angular *Simplify your frontend development workflow and enhance the user*

*experience of your applications with React Apress*

Use the enormously popular React framework to build dynamic JavaScript applications that take advantage of the capabilities of modern browsers and devices. You will learn how React brings the power of strong architecture and responsive data to the client, providing the foundation for complex and rich user interfaces. Best-selling author Adam Freeman explains how to get the most from React. He begins by describing the React architecture and the benefits it offers and then shows you how to use React and its associated tools and libraries in your projects, starting from the nuts and bolts and building up to the most advanced and sophisticated features, going in-depth to give you the

knowledge you need. Each topic is presented clearly and concisely. Chapters include common problems and how to avoid them. What You'll Learn Gain a solid understanding of the React design Create rich and dynamic web app clients using React Create data stores using Redux Consume data using REST and GraphQL Test your React projects Who This Book Is For JavaScript developers who want to use React to create dynamic client-side applications **Patterns for building powerful web apps with vanilla JavaScript and React** "O'Reilly Media, Inc."

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.  
[Elevating React Web Development with Gatsby](#) Simon and Schuster  
Integrate your React applications with React to build efficient web services. Key Features  
Learn React by building applications with Create React App  
Create interactive UIs exploring the latest feature of CRA 2.0  
Build Progressive Web Applications for a more seamless web  
Book Description  
If you're a power user and you aren't happy always reusing default configurations, from previous applications with each new application, then all you need is Create React App (CRA), a tool in the React ecosystem designed to help you create boilerplate code for building a web frontend. This book will help you

use CRA to write React programs without significant configuration-related difficulties. With this quick start guide, you will integrate your applications with React to build efficient professional web services. You will learn to design UIs with the features of CRA and template your React applications. By the end of the book, you will be sufficiently skilled to be able to build faster and effective React apps using CRA. What you will learn

Become familiar with React by building applications with Create React App Make your frontend development hassle free Create interactive UIs exploring the latest features of CRA 2 Build modern, React projects with, SASS, and progressive web applications Develop proxy backend servers and simulate interaction with a full backend Keep your

application fully tested and maintain confidence in your project Who this book is for The book is intended for the web developers who want to jump into building great frontend with React using easy templating solutions.

### **Modern Patterns for Developing React Apps** Simon and Schuster

Get to grips with the AWS Amplify framework and use it to build scalable cloud-native progressive web apps with React and cross-platform mobile apps with React Native in TypeScript Key Features Explore the capabilities of AWS Amplify with popular app frameworks for both web and mobile app platforms Build your first cloud-native web and mobile applications using AWS Amplify Leverage AWS Amplify to design GraphQL APIs for your web and mobile applications Book

Description AWS Amplify is a modern toolkit that includes a command line interface (CLI); libraries for JS, iOS, and Android programming; UI component libraries for frameworks like React, Angular, and Vue.js for web development, and React Native and Flutter for mobile development. You'll begin by learning how to build AWS Amplify solutions with React and React Native with TypeScript from scratch, along with integrating it with existing solutions. This book will show you the fastest way to build a production-ready minimum viable product (MVP) within days instead of years. You'll also discover how to increase development speed without compromising on quality by adopting behavior-driven development (BDD) and Cypress for end-

to-end test automation, as well as the Amplify build pipeline (DevOps or CI/CD pipeline) to ensure optimal quality throughout continuous test automation and continuous delivery. As you advance, you'll work with React to determine how to build progressive web apps (PWAs) with Amplify and React Native for cross-platform mobile apps. In addition to this, you'll find out how to set up a custom domain name for your new website and set up the AWS Amplify Admin UI for managing the content of your app effectively. By the end of this AWS book, you'll be able to build a full-stack AWS Amplify solution all by yourself. What you will learn Build React and React Native apps with Amplify and TypeScript Explore pre-built Amplify UI components for rapid prototyping Add

user management with Amplify authentication to your app Use Amplify GraphQL to create a blog post Discover how to upload photos to Amplify Storage Enable DevOps with the Amplify pipeline for your app Get to grips with BDD and test automation with Cypress and Cucumber Set up a custom domain name for your website and manage app content with the Amplify Admin UI Who this book is for This book is for developers and tech companies looking to develop cloud-native products rapidly with the AWS ecosystem. Web and mobile developers with little-to-no experience in TypeScript programming will also find this book helpful. Although no prior experience with AWS or TypeScript is required, basic familiarity with modern frameworks such as React

and React Native is useful.

"O'Reilly Media, Inc."

Elixir and Phoenix are generating tremendous excitement as an unbeatable platform for building modern web applications. For decades OTP has helped developers create incredibly robust, scalable applications with unparalleled uptime. Make the most of them as you build a stateful web app with Elixir, OTP, and Phoenix. Model domain entities without an ORM or a database. Manage server state and keep your code clean with OTP Behaviours. Layer on a Phoenix web interface without coupling it to the business logic. Open doors to powerful new techniques that will get you thinking about web development in fundamentally new ways. Elixir and OTP provide exceptional

tools to build rock-solid back-end applications that scale. In this book, you'll build a web application in a radically different way, with a back end that holds application state. You'll use persistent Phoenix Channel connections instead of HTTP's request-response, and create the full application in distinct, decoupled layers. In Part 1, start by building the business logic as a separate application, without Phoenix. Model the application domain with Elixir functions and simple data structures. By keeping state in memory instead of a database, you can reduce latency and simplify your code. In Part 2, add in the GenServer Behaviour to make managing in-memory state a breeze. Create a supervision tree to boost fault tolerance while separating error handling from business logic.

Phoenix is a modern web framework you can layer on top of business logic while keeping the two completely decoupled. In Part 3, you'll do exactly that as you build a web interface with Phoenix. Bring in the application from Part 2 as a dependency to a new Phoenix project. Then use ultra-scalable Phoenix Channels to establish persistent connections between the stateful server and a stateful front-end client. You're going to love this way of building web apps! What You Need: You'll need a computer that can run Elixir version 1.5 or higher and Phoenix 1.3 or higher. Some familiarity with Elixir and Phoenix is recommended.

**13th International Conference,  
WEBIST 2017, Porto, Portugal, April  
25-27, 2017, Revised Selected**

**Papers** "O'Reilly Media, Inc."

Summary React Quickly is for anyone who wants to learn React.js fast. This hands-on book teaches you the concepts you need with lots of examples, tutorials, and a large main project that gets built throughout the book. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Successful user interfaces need to be visually interesting, fast, and flowing. The React.js JavaScript library supercharges view-heavy web applications by improving data flow between UI components. React sites update visual elements efficiently and smoothly, minimizing page reloads. React is developer friendly, with a strong ecosystem to support the dev process

along the full application stack. And because it's all JavaScript, React is instantly familiar. About the Book React Quickly is the tutorial for web developers who want to get started fast with React.js. Following carefully chosen and clearly explained examples, you'll learn React development using your existing JavaScript and web dev skills. You'll explore a host of different projects as you learn about web components, forms, and data. What's Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building web applications with JavaScript. About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and

teaching JavaScript and Node, and author of several books on JavaScript, Node, React, and Express. Table of Contents PART 1 - REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components Project: Menu component Project: Tooltip component Project: Timer component PART 2 - REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project: Building a bookstore with React Router Project: Checking passwords with Jest Project:

Implementing autocomplete with Jest, Express, and MongoDB APPENDIXES Appendix A - Installing applications used in this book Appendix B - React cheatsheet Appendix C - Express.js cheatsheet Appendix D - MongoDB and Mongoose cheatsheet Appendix E - ES6 for success

*Progressive Web Apps* "O'Reilly Media, Inc."

What people are saying about Building iPhone Apps w/ HTML, CSS, and JavaScript "The future of mobile development is clearly web technologies like CSS, HTML and JavaScript. Jonathan Stark shows you how to leverage your existing web development skills to build native iPhone applications using these technologies." --John Allsopp, author and founder of Web Directions "Jonathan's

book is the most comprehensive documentation available for developing web applications for mobile Safari. Not just great tech coverage, this book is an easy read of purely fascinating mobile tidbits in a fun colloquial style. Must have for all PhoneGap developers." -- Brian LeRoux, Nitobi Software It's a fact: if you know HTML, CSS, and JavaScript, you already have the tools you need to develop your own iPhone apps. With this book, you'll learn how to use these open source web technologies to design and build apps for the iPhone and iPod Touch on the platform of your choice-without using Objective-C or Cocoa. Device-agnostic mobile apps are the wave of the future, and this book shows you how to create one product for several platforms. You'll find guidelines for

converting your product into a native iPhone app using the free PhoneGap framework. And you'll learn why releasing your product as a web app first helps you find, fix, and test bugs much faster than if you went straight to the App Store with a product built with Apple's tools. Build iPhone apps with tools you already know how to use Learn how to make an existing website look and behave like an iPhone app Add native-looking animations to your web app using jQuery Take advantage of client-side data storage with apps that run even when the iPhone is offline Hook into advanced iPhone features -- including the accelerometer, geolocation, and vibration -- with JavaScript Submit your applications to the App Store with Xcode This book

received valuable community input through O'Reilly's Open Feedback Publishing System (OFPS).

**Beginning React** Packt Publishing Ltd  
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.