Getting Started With React Js In Asp Net Mvc

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get up and running with reactjs by developing five cutting edge and responsive projects about this book create pragmatic real world applications while learning react and its modern developer tools

build sustainable user interfaces by transforming data into components of ui learn how to generate reusable reactjs components effectively who this book is for if you are a web developer and wish to learn reactjs from scratch then this book is tailor made for you good understanding of javascript html and css is expected what you will learn create reuse and compose react components using jsx share data between various react components and techniques for data flow within a react app handle user interactions with the help of event handlers and dynamic components set up and use various next generation es2015 es6 features with react understand the performance and immutability features of react using react add ons learn the techniques of animation in react use data stores to store model related data and information create a flux based react application by using reflux library in detail reactjs is an open source javascript library that brings the power of reactive programming to web applications and sites it aims to address the challenges encountered in developing single page applications and is intended to help developers build large easily scalable and changing web apps starting with a project on open library api you will be introduced to react and jsx before moving on to learning about the life cycle of a react component in the second project building a multi step wizard form you will learn about composite dynamic components and perform dom actions you will also learn about building a fast search engine by exploring server side rendering in the third project on a search engine application next you will build a simple frontpage for an e commerce app in the fourth project by using data models and react add ons in the final project you will develop a complete social media tracker by using the flux way of defining react apps and know about the best practices and use cases with the help of es6 and redux by the end of this book you will not only have a good understanding of reactjs but will also have built your very own responsive frontend applications from scratch style and approach an easy to follow program to learn reactjs with the help of real world projects each topic is explained within the context of a project and provides plenty of tips and tricks for using reactjs

learning react a hands on guide to building web applications using react and redux as far as new web frameworks and libraries go react is quite the runaway success it not only deals with the most common problems developers face when building complex apps it throws in a few additional tricks that make building the visuals for such apps much much easier what react isn t though is beginner friendly and approachable until now in learning react author kirupa chinnathambi brings his fresh clear and very personable writing style to help web developers new to react understand its fundamentals and how to use it to build really performant and awesome apps the only book on the market that helps you get your first react app up and running in just minutes learning reactis chock full of colorful illustrations to help you visualize difficult concepts and practical step by step examples to show you how to apply what you learn build your first react app create components to define parts of your ui combine components into other components to build more complex uis use jsx to specify visuals without writing full fledged javascript deal with maintaining state work with react s way of styling content make sense of the mysterious component lifecycle build multi page apps using routing and views optimize your react workflow using tools such as node babel webpack and others use redux to make managing your app data and state easy contents at a glance 1 introducing react 2 building your first react app 3 components in react 4 styling in react 5 creating complex components 6 transferring properties 7 meet jsx again 8 dealing with state in react 9 going from data to ui in react 10 events in react 11 the component lifecycle 12 accessing dom elements in react 13 setting up your react dev environment 14 working with external data in react 15 building an awesome todo list app in react 16 creating a sliding menu in react 17 avoiding unnecessary renders in react 18 creating a single page app in react using react router 19 introduction to redux 20 using redux with react

a fast paced guide to designing and building scalable and maintainable web apps with react js about this book build maintainable and performant user interfaces for your web applications using

react js create reusable react js components to save time and effort in maintaining your user interfaces learn how to build a ready to deploy react js web application following our step by step tutorial who this book is for if you re a front end developer with knowledge of jquery and its libraries along with frameworks such as angular js and backbone js or native javascript development and you wish to use the fastest web user interface library there is then this book is ideal for you what you will learn install powerful react js tools to make development much more efficient create react elements with properties and children get started with stateless and stateful react components use jsx to speed up your react js development process add reactivity to your react components with lifecycle methods integrate your react components with other javascript libraries utilize the flux application architecture with your react components test your react components with jest test framework in detail building web applications with maintainable and performant user interfaces is a challenge that many have faced for more than a decade but no one has risen to this challenge quite like react js today react js is used by facebook instagram khan academy and imperial college london to name a few many new users recognize the benefits of react js and adopt it in their own projects forming a fast growing community the speed at which react js has evolved promises a bright future for those who invest in learning it today react js essentials will take you on a fast paced journey through building your own maintainable react js application begin by exploring how you can create single and multiple user interface elements create stateless and stateful components and make them reactive learn to interact between your components and lifecycle methods and gauge how to effectively integrate your user interface components with other javascript libraries delve deep into the core elements of the flux architecture and learn how to manage your application using stores finish by going that extra mile with the jest test framework running multiple tests on your application and find solutions to scale it further without complexity style and approach the book adopts a step by step hands on approach

with ample codes to ensure you learn react js at a fast pace

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 contens 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

in this book we take you on a fun hands on and pragmatic journey to master react from a web development point of view you ll start building react apps within minutes every section is written in a bite sized manner and straight to the point as i don t want to waste your time and most certainly mine on the content you don t need in the end you will have what it takes to develop a real life app facebook s react has changed the way we think about web applications and user interface development due to its design you can use it beyond web a feature known as the virtual dom enables this in this chapter we ll go through some of the basic ideas behind the library so you understand react a little better before moving on what is react react is a javascript library that forces you to think in terms of components this model of thinking fits user interfaces well depending on your background it might feel alien at first you will have to think very carefully about the concept of state and where it belongs because state management is a difficult problem a variety of solutions have appeared in this book we ll start by managing state ourselves and then push it to a flux implementation known as alt there are also implementations available for several other alternatives such as redux mobx and cerebral react is pragmatic in the sense that it contains a set of escape hatches if the react model doesn t work for you it is still possible to revert back to something lower level for instance there are hooks that can be used to wrap older logic that relies on the dom this breaks the abstraction and ties your code to a specific environment but sometimes that s the pragmatic thing to do one of the fundamental problems of programming is how to deal with state suppose you are developing a user interface and want to show the same data in multiple places how do you make sure the data is consistent historically we have mixed the concerns of the dom and state and tried to manage it there react solves this problem in a different way it introduced the concept of the virtual dom to the masses virtual dom exists on top of the actual

dom or some other render target it solves the state manipulation problem in its own way whenever changes are made to it it figures out the best way to batch the changes to the underlying dom structure it is able to propagate changes across its virtual tree as in the image above virtual dom performancehandling 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

get up to speed with react react native graphql and apollo for building cross platform native apps with the help of practical examples key featurescovers the latest features of react such as hooks suspense nativebase and apollo in this updated third editionget to grips with the react architecture for writing easy to manage web and mobile applicationsunderstand graphql and apollo for building a scalable backend for your cross platform appsbook 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 learndelve into the react architecture component properties state and contextget to grips with react hooks for handling functions and componentsimplement code splitting in react using lazy components and suspensebuild robust user interfaces for mobile and desktop apps using material uiwrite shared components for android and ios mobile apps using react nativesimplify layout design for react native apps using nativebasewrite graphql schemas to power web and mobile appsimplement web and mobile components that are driven by apollowho 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

quickly learn the most widely used front end development language with ease and confidence react js foundations building user interfaces with reactjs an approachable guide walks readers through the fundamental concepts of programming with the explosively popular front end tool known as react js written by an accomplished full stack engineer speaker and community organizer react js foundations teaches readers how to understand react and how to begin building applications with it the book explains and clarifies technical terminology with relevant and modern examples to assist people new to programming understand the language helps experienced programmers quickly get up to speed with react is stocked throughout with practical and applicable examples of day to day react work perfect for beginner intermediate and advanced programmers alike react js foundations will quickly bring you up to speed on one of the most useful and widely used front end languages on the web today you can start building your first

application today

work through engaging exercises and activities and gain practical skills to make your web applications function effortlessly with the help of react key featuresexplore the react environment by creating live projectssolve real world problems relating to building modern web applicationsgain a thorough understanding of how data moves through different react componentsbook description are you interested in how react takes command of the view layer for web and mobile apps and changes the data of large web applications without needing to reload the page this workshop will help you learn how and show you how to develop and enhance web apps using the features of the react framework with interesting examples and exercises the workshop starts by demonstrating how to create your first react project you ll tap into react s popular feature jsx to develop templates and use dom events to make your project interactive next you ll focus on the lifecycle of the react component and understand how components are created mounted unmounted and destroyed later you ll create and customize components to understand the data flow in react and how props and state communicate between components you ll also use formik to create forms in react to explore the concept of controlled and uncontrolled components and even play with react router to navigate between react components the chapters that follow will help you build an interesting image search app to fetch data from the outside world and populate the data to the react app finally you ll understand what ref api is and how it is used to manipulate dom in an imperative way by the end of this react book you ll have the skills you need to set up and create web apps using react what you will learnuse jsx to include logic in the view layer of applicationsget familiar with the important methods and events in the react lifecycledistinguish between class and functional component syntaxescreate forms with formik and handle errorsunderstand the react hooks api and the problems it can solvefetch outside data using the axios library and populate the data to the appwho this book is for the react workshop is for web

developers and programmers who are looking to learn react and use it for creating and enhancing web applications although the workshop is for beginners prior knowledge of javascript programming and html and css is necessary to easily understand the concepts that are covered

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

react this book tutorial is about reactjs and it is designed to move you from beginner to advanced programming this book is based on 17 chapters well managed and it will helps you to become a react js expert in less than 7 days each chapter will contain a certain number of relevant topics with illustrations and exercises where necessary this will all be finished off with an end of chapter quiz for an easy and enjoyable learning benefits of reading this book that you re not going to find anywhere else it helps you to understand react easily you can learn how to install node js based on reactjs with react you can build applications fast reactjs is seo friendly it makes code writing simple we can use react with other libraries react js is very light weight front end framework which allows developers to create web applications faster great community support supports state management using redux click add to cart to get this amazing book

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 featuresmobile 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 learnexplore the design patterns in react nativelearn the best practices for react native developmentexplore common react patterns that are highly used within react native developmentlearn to decouple components and use dependency injection in your applicationsexplore the best ways of fetching data from the backend systemslearn the styling patterns and how to implement custom mobile designsexplore the best ways to organize your application code in big codebaseswho 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

summary react in action introduces front end developers to the react framework and related tools this clearly written example rich book begins by introducing you to react diving into some of the fundamental ideas in react and working with components in the second section you ll explore the

different ways that data works in react as well as learning more about components you ll also find several useful appendixes covering related topics like react tooling and the react ecosystem purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology facebook created react to help deliver amazing user experiences on a website with thousands of components and an incomprehensible amount of traffic the same powerful tools are available to you too the key is a clever design for managing state data flow and rendering so your application is easy to think about and runs smoothly add an incredibly rich ecosystem of components and libraries and you ve got a recipe for building web apps that will delight both developers and users about the book react in action teaches you to think like a pro about user interfaces and building them with react this practical book gets you up and running quickly with hands on examples in every chapter you ll master core topics like rendering lifecycle methods jsx data flow forms routing integrating with third party libraries and testing and the included application design ideas will help make your apps pop as you learn to integrate react into full stack applications you ll explore state management with redux and server side rendering and even dabble in react native for mobile uis what s inside react from the ground up implementing a routing system with components server side rendering in node js working with third party libraries testing react components about the reader written for developers familiar with html css and javascript about the author mark thomas is an experienced software engineer who works daily with react javascript and node js he loves clean code beautiful systems and good coffee table of contents part 1 meet react meet react our first component part 2 components and data in react data and data flow in react rendering and lifecycle methods in react working with forms in react integrating third party libraries with react routing in react more routing and integrating firebase testing react components part 3 react application architecture redux application architecture more redux and integrating redux with react react on the server and integrating react router an

introduction to react native

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

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 jsreact 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 Ê descriptionÊ 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 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 featuresÊ 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 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 Ê what will you learnÊ Êwhat react is and how to get started with it Êmodern ways to code react applications Êimplementing server side rendering with without next js on the top of react library Êworking with progressive apps in react Êhow react works under the hood Êfuture of react and bleeding edge react tech you can use today Ê who this book is forÊÊ 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 Ê table of contents 1 react 101 2 setting up react 3 components 4 state management with react 5 server side react 6 introduction to next js 7 more with next js 8 progressive apps 9 bleeding edge react

learn how to develop real world applications of varying complexity for the web mobile and vr devices using react react native react 360 and more key features build react applications at scale using react patterns and best practices explore react features such as hooks the context api and the suspense api extend react s integration with react native for building cross platform mobile apps and games book description developed by facebook react is a popular library for building impressive user interfaces react extends its capabilities to mobile platforms using the react native framework and integrates with popular web and mobile tools to build scalable applications react projects is your guide to learning react development by using modern development patterns and integrating react with powerful web tools such as graphql expo and react 360 you ll start building a real world project right from the first chapter and get hands on with developing scalable

applications as you advance to building more complex projects throughout the book you ll use the latest versions of react and react native to explore features such as routing context and hooks on multiple platforms which will help you build full stack web and mobile applications efficiently finally you ll get to grips with unit testing with jest and end to end testing with cypress to build test driven apps by the end of this react book you ll have developed the skills necessary to start building scalable react apps across web and mobile platforms what you will learn create a wide range of applications using various modern react tools and frameworks discover how react hooks modernize state management for react apps develop web applications using styled and reusable react components build test driven react applications using jest react testing library and cypress understand full stack development using graphql apollo and react perform server side rendering using react and next js create animated games using react native and expo design gestures and animations for a cross platform game using react native who this book is for the book is for javascript developers who want to explore react tooling and frameworks for building cross platform applications basic knowledge of web development ecmascript and react will assist with understanding key concepts covered in this book table of contents creating a single page application in react creating a portfolio in react with reusable components and routing building a dynamic project management board building a server side rendered community feed using next js build a personal shopping list application using context and hooks building an application exploring tdd using the react testing library and cypress building a full stack e commerce application with next js and graphql building an animated game using react native and expo building a full stack social media application with react native and expo creating a virtual reality application with react and three js

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

my fourth web development book is simply called react js book it will walk you step by step through the process of setting up a development environment and learning reactive programming from start to finish react is a library unlike any other i have worked with unlike jquery where you had to learn a number of methods that do very specific things it s largely inspired by a programming methodology for creating fast web applications in addition you will be expected to know or at least be briefly familiar with prerequisite knowledge of other web development tools such as node js npm babel jsx and webpack these are not required elements of programming with react but without them things would be tough as of 2017 reactive programming is an alternative way of thinking about web applications it provides software patterns that make your web app extremely responsive to user input and generally feel faster to the end user people who are using your application the virtual dom alone is enough of a reason to switch to react programming with react library is a lot more than just learning about and using react objects components states props

and methods it requires previous experience with javascript and at times assumes knowledge of software principles not inherent to react library itself this book is not a list of object names methods and functions with side explanations of what they do rather it deals with the said principles involved in react programming thought up by the creators of react library principles that are usually understood by professional web developers and software engineers for all these reasons stated above this book will gradually walk you through the process of becoming familiar with react library starting from basic concepts gradually we will move toward more advanced subjects so prepare to be educated

build cross platform applications of varying complexity for the web mobile and vr devices using react tooling key featuresbuild react applications at scale using effective react patterns and best practicesexplore react features such as hooks the context api and the suspense apiextend react s integration with react native for building cross platform mobile apps and gamesbook description developed by facebook react is a popular library for building impressive user interfaces react extends its capabilities to the mobile platform using the react native framework and integrates with popular web and mobile tools to build scalable applications react projects is your guide to learning react development by using modern development patterns and integrating react with powerful web tools such as graphql expo and react 360 you ll start building a real world project right from the first chapter and get hands on with developing scalable applications as you advance to building more complex projects throughout the book you ll use the latest versions of react and react native to explore features such as higher order components hoc context and hooks on multiple platforms which will help you build full stack web and mobile applications efficiently finally you ll delve into unit testing with jest to build test driven apps by the end of this react book you ll have developed the skills necessary to start building scalable react apps across web and mobile platforms what you will learncreate a wide range of applications using various modern react tools

and frameworksdiscover how react hooks modernize state management for react appsdevelop progressive web applications using react componentsbuild test driven react applications using the jest and enzyme frameworksunderstand full stack development using react apollo and graphqlperform server side rendering using react and react routerdesign gestures and animations for a cross platform game using react nativewho this book is for the book is for javascript developers who want to explore react tooling and frameworks for building cross platform applications basic knowledge of web development ecmascript and react will assist with understanding key concepts covered in this book

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 jsreact 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

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