React Js Web Application Development Traininghott

Patrick Vollmar

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Real-World Next.js Michele Riva,2022-02-28 Learn how to use Next js for building web apps without compromising performance user experience and developer happiness Key FeaturesDevelop scalable web applications using Next jsUse Next js as a frontend for existing backends and e commerce websites and understand how to implement it with any headless CMSDeploy Next js on different platforms such as Vercel DigitalOcean and AWS or on your own serverBook Description Next js is a scalable and high performance React js framework for modern web development and provides a large set of features such as hybrid rendering route prefetching automatic image optimization and internationalization out of the box If you are looking to create a blog an e commerce website or a simple website this book will show you how you can use the multipurpose Next js framework to create an impressive user experience Starting with the basics of Next js the book demonstrates how the framework can help you reach your development goals You ll realize how versatile Next js is as you build real world applications with step by step explanations This Next js book will guide you in choosing the right rendering methodology for your website securing it and deploying it to different providers all while focusing on performance and developer happiness By the end of the book you ll be able to design build and deploy modern architectures using Next js with any headless CMS or data source What you will learnGet up to speed with Next js essentials and learn how to build apps quicklyUnderstand how to create scalable Next js architecturesChoose between different rendering strategies such as client side rendering CSR static site generation SSG server side rendering SSR and incremental static regeneration ISR Write unit tests and integration tests in your Next js applicationDiscover the powerful routing system and Next js built in componentsDesign and build modern architectures with Next js using GraphCMS or any headless CMSWho this book is for This book is for web developers who want to improve their React skills by building scalable and maintainable full stack applications using the modern Next js web framework Intermediate level knowledge of ES6 React Node js and REST is assumed   **React: Building Modern Web Applications** Jonathan Hayward,Artemij Fedosejev,Narayan Prusty,Adam Horton,Ryan Vice,Ethan Holmes,Tom Bray,2016-06-10 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 *Full-Stack React, TypeScript, and Node* David Choi,2020-12-18 Discover the current landscape of full stack development and how to leverage modern web technologies for building production ready React js applications to deploy on AWS Key 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   *The The React Workshop* Brandon Richey,Ryan Yu,Endre Vegh,Theofanis Despoudis,Anton Punith,Florian Sloot,2020-08-21 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   **Reactjs by Example- Building Modern Web Applications with React** Vipul Amler,Prathamesh Sonpatki,2016-04-18 Get up and running with ReactJS by developing five cutting edge and responsive projectsAbout 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 effectivelyWho This Book Is ForIf 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 libraryIn DetailReactJS 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   **Your First Week With React** Maria Antonietta Perna,Pavels Jelisejevs,Michael Wanyoike,Chris Laughlin,Eric Greene,Mark Brown,Camilo Reyes,2017-11-07 React is a remarkable JavaScript library that taken the development community by storm In a nutshell it s made it easier for developers to build interactive user interfaces for web mobile and desktop platforms One of

its best features is its freedom from the problematic bugs inherent in MVC frameworks where inconsistent views is a recurring problem for big projects Today thousands of companies worldwide are using React including big names such as Netflix and AirBnB React has become immensely popular such that a number of apps have been ported to React including WhatsApp Instagram and Dropbox This book is a collection of tutorials selected from SitePoint s React Hub that will guide you through your first days with the amazingly flexible library   React, Building Modern Web Applications Edwin Moses,2016   React and React Native Adam Boduch,Roy Derks,2020-04-30 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   **React and React Native** Adam Boduch,Roy Derks,2020-04-29 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   *React. Js*

Book Greg Sidelnikov,2017-03-17 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   Full-Stack React Projects Shama Hoque,2020-04-17 A practical project based guide to full stack JavaScript web development combining the power of React with industry tested server side technologies Key Features Build your career as a full stack developer with this practical guide Understand how the different aspects of a MERN application come together through a series of practical projects Master the MERN stack by building robust social media E commerce store and web based VR game apps Book DescriptionFacebook s React combined with industry tested server side technologies such as Node Express and MongoDB enables you to develop and deploy robust real world full stack web apps This updated second edition focuses on the latest versions and conventions of the technologies in this stack along with their new features such as Hooks in React and async await in JavaScript The book also explores advanced topics such as implementing real time bidding a web based classroom app and data visualization in an expense tracking app Full Stack React Projects will take you through the process of preparing the development environment for MERN stack based web development creating a basic skeleton app and extending it to build six different web apps You ll build apps for social media classrooms media streaming online marketplaces with real time bidding and web based games with virtual reality features Throughout the book you ll learn how MERN stack web development works extend its capabilities for complex features and gain actionable insights into creating MERN based apps along with exploring industry best practices to meet the ever increasing demands of the real world By the end of this React book you ll be able to build

production ready MERN full stack apps using advanced tools and techniques in modern web development What you will learn Extend a basic MERN based application to build a variety of applications Add real time communication capabilities with Socket IO Implement data visualization features for React applications using Victory Develop media streaming applications using MongoDB GridFS Improve SEO for your MERN apps by implementing server side rendering with data Implement user authentication and authorization using JSON web tokens Set up and use React 360 to develop user interfaces with VR capabilities Make your MERN stack applications reliable and scalable with industry best practices Who this book is for This is one of the most useful web development books for JavaScript developers who may have worked with React but have minimal experience in full stack development with Node Express and MongoDB   Learn React with TypeScript 3 Carl Rippon,2018-11-29 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 DescriptionReact 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   **React Js** Nln Lnc,Susan

Fitzgerald,2020-10-14 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 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 *React Js* Susan Fitzgerald,2020-07-13 React jsFacebook 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   React Design Patterns and Best Practices Carlos Santana Roldán,2019-03-30 We will be taking a complete journey through the most valuable design patterns in React this book demonstrates how to apply design patterns and best practices in real life situations whether that s for new or already existing projects It will help you to make your applications more flexible perform better and easier to maintain   *Learning React* Kirupa Chinnathambi,2018-04-26 Learning React A hands on guide to building web applications using React and Redux As far as new web frameworks and libraries go React is quite the runaway success It not only deals with the most common problems developers face when building complex apps it throws in a few additional tricks that make building the visuals for such apps much much easier What React isn t though is beginner friendly and approachable Until now In Learning React author Kirupa Chinnathambi brings his fresh clear and very personable writing style to help web developers new to React understand its fundamentals and how to use it to build really performant and awesome apps The only book on the market that helps you get your first React app up and running in just minutes Learning 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

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prototyping techniques and tools Make your React application feel great using animationsIn DetailReact stands out in the web framework crowd through its approach to composition This approach yields blazingly fast rendering capabilities This book will help you understand what makes React special It starts with the fundamentals and uses a pragmatic approach focusing on clear development goals You ll learn how to combine many web technologies surrounding React into a complete set for constructing a modern web application With this text you ll blitz the basics then swiftly move on to advanced topics such as form validation and complete application construction You ll also explore several design activities which will help you develop your web applications with a thoughtful plan Finally you ll learn several methods for implementing slick animations using React Style and approachThis is a comprehensive hands on guide that helps you get a solid understanding of the ins and outs of React development For application development you will get a high view of the anatomy where you will zoom into each part and make decisions by moving through the application s anatomy selecting a solution that fits the problem and lines up with your goals **React Quickly, Second Edition** Morten Barklund,Azat Mardan,2024-01-02 Learn the skills you need to build React applications quickly This fully revised second edition introduces JSX functional components React hooks event and form handling and more In React Quickly Second Edition you will learn how to Master React fundamentals Implement best practices and the components of good architecture Build intuitive user interfaces Create dynamic components with JSX Use lightweight functional components in React Make your app interactive with stateful components Utilize React hooks Handle events like button clicks and pass data between components Build your skills with React fast There s no slow theory and tedious history in React Quickly you ll dive into React code right from the very first chapter As you go you ll explore over 80 useful and practical examples that put React into action This new second edition has been completely rewritten to cover the latest developments in the React framework Perfect whether you re a React beginner or an experienced pro looking to keep their skills up to date About the technology React makes it a breeze to build beautiful reliable web frontends This amazing JavaScript library has a modular architecture so you can create combine and test components seamlessly React is perfect for small prototypes enterprise scale sites and everything in between About the book React Quickly Second Edition offers a unique approach to learning the React framework More than 80 concise examples guide you from your first steps through advanced applications You ll appreciate the up to date coverage of functional components React hooks and web accessibility along with interesting projects to practice your new skill What s inside Master React fundamentals Best practices of component based design Create dynamic components with JSX Make your app interactive with stateful components About the reader For developers comfortable building web applications with JavaScript About the author Morten Barklund is an expert in React web testing and accessibility and is the founder of Coding Heaven Azat Mardan is a seasoned software engineer startup mentor and best selling author Table of Contents 1 Meeting React 2 Baby steps with React 3 Introduction to JSX 4 Functional Components 5 Making React interactive with states 6 Effects and

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React Js Web Application Development Traininghott Introduction

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